ANATOMY
AND
DRAWING

BY VICTOR PERARD

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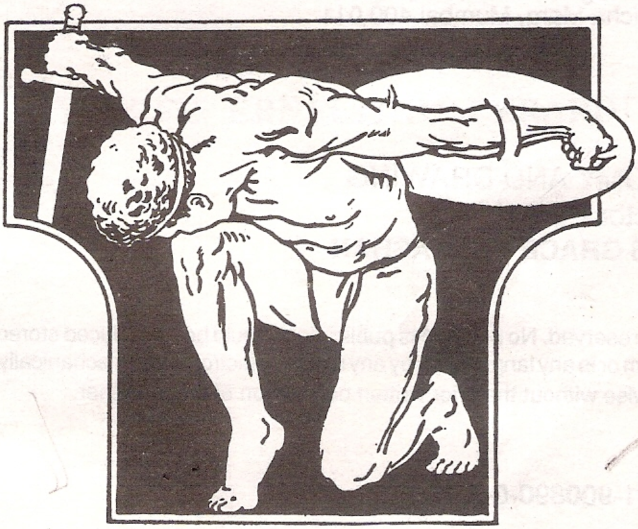

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DEDICATED TO
MY WIFE ERNESTINE PERARD

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OVER A THOUSAND ILLUSTRATIONS

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PREFACE

The purpose of this book is to present in a simple and direct manner the subject of anatomy as it is applied to Art. As little text as possible has been used, and much dependence has been placed on pictorial representation because the latter are a more direct means of impressing the artist with construction and form. For this reason this work has been copiously illustrated, often showing various views of the same structures and action.

To the beginner the study of anatomy is too often dull, prosaic and difficult and this is due, in large part, to the fact that many text books on the subject contain insufficient descriptive drawings. Even though the subject plows through many pages of text, he often fails to visualize the subject properly. Therefore it has been endeavored to substitute llustrations for descriptive text whenever practical. The drawing have been arranged in groups for the purpose of comparison, and in this way theeye becomes accustomed to observe much which otherwisemight escape attention.

To express outward form correctly requires a knowledge of the internal structure, that is, of the bones which compose the framework and define its proportions and of the muscles and tendons which direct its action.

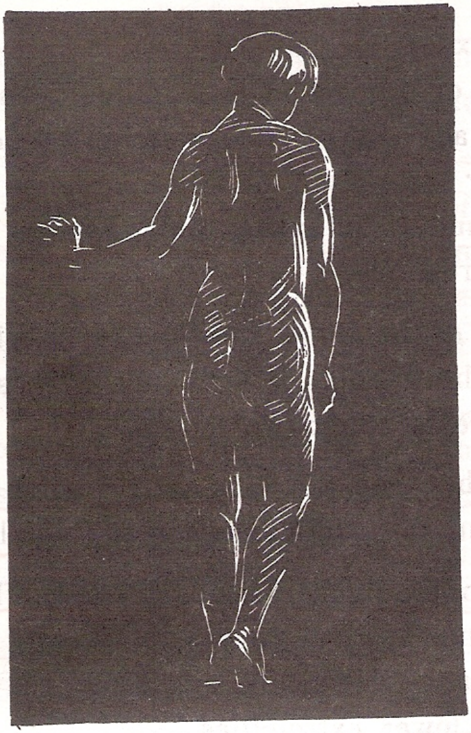
Every figure artist finds sooner or later, as he advances n his artist career, that his work needs strengthening through a well grounded knowledge of anatomy. The great masters of the past realized this and their grasp on the fundamentals of anatomy is reflected not only on their finished works, but in such of their preliminary sketches as are still preserved.

The ability to construct figures correctly from the magination rather then to depend entirely on models is a distinct aid to the draftsman and to the sculptor. The student of anatomy should therefore test his skill by making memory drawing and by applying his knowledge to compositions of his own fancy.

When working from living models, the artist will find that his knowledge of anatomy will enable him to analyze and nterpret the forms before him in a more understanding way

then he could without such information. It will develop in him greater powers of observation. An understanding of anatomy is an instrument in the mechanics of Art: a means to be employed to assist but never allowed to dominate. The artist must learn properly to evaluate his anatomical information and to know the part it is to play in the development of his art. The studies he makes will then be done more intelligently and with better draftsmanship as an inevitable result.

VICTOR PERARD



NOTES ON PROPORTION

Since proportion is the comparative relation of one thing to another, some standard or unit of measure must arbitrarily be established. In Art, this unit is known as the "head" which is the distance from the top of the skull to the tip of the chin. The illustrations is this book are based on the proportion of seven and a half "heads" to the height of an erect figure. The use of this standard will obviate much descriptive text. It is well, however to bear in mind that this standard of proportion is modified by such elements as race, sex, age and physical differences peculiar to the individual. For this reason the following notes on proportion are grouped under the heads: Male, Female, Children and General Observations.

Proportions of the Male. The greatest width of the male figures is at the deltoids, a little below the shoulders and the width here is about two heads.

The width between the hips should equal one and one half heads, and the width between the nipples one head.

The height of the figure, seven and one-half heads, should approximate one "head" for the head, two and three-quarter heads for the neck and trunk, and three and three-quarter heads for the lower extremities.

From the finger tips to the elbow should measure two heads.

Proportions of the Female. The bones of the female are shorter and have less rough surface than those of the male. The sternum or breast bone is shorter and more curved and the pelvis is broader and shallower which gives a greater width to the hips. The sacrum is wider and projects at an angle backward.

The posterior superior iliac spines and the anterior iliac

spines are further apart than those of the male. The distance from the rib cage to the pelvis is greater due to the shallower and broader pelvis.

There is less distance from the crest of the iliacs to the great trochanters of the hips, because the anterior iliac spines are spread out and lower, and further apart. In the female figure the Poupart's ligaments and the furrow of the groin are more horizontal.

The shoulders are narrower and the collar bones (clavicles) straighter and shorter thus giving a more graceful and longer neck and more sloping shoulders in comparison with the square shoulders of the male.

The arms are shorter in proportion to the trunk which is due to the shorter humerus bone of the female, and because the humerus bone is shorter, the elbow is higher.

Variations in the length of the female leg are more frequent than those of the trunk and so it is more difficult to judge the height of the female figure when seated. But the length of the torso is proportionately longer than in the other sex. The legs are shorter and the skull smaller.

The center of the female figures is above the pubic bone while in the male, the center is about at the pubic bone. The width of the female hips is about the width of the chest wall plus that of one arms and is greater than that of the male of the same height. The fact that the female sacrum is at a greater angle than that of the male and that there is more fat on the buttocks gives these a greater diameter.

The female abdomen, is more rounded and the thighs are thicker from the back to the front than in the other sex.

Proportions of Children. The child of three is about one half the height of the adult, and at ten, about three-quarters the height of the adult. As the child grows older the relative sizes of the head and the trunk change. At twenty-five the figures is full grown.

At birth the centre of the figure is a little above the navel, at two years at the navel and at three years the center is level with the iliac bone.

With advancing age this point gradually lowers depending to great extent on the length of the legs.

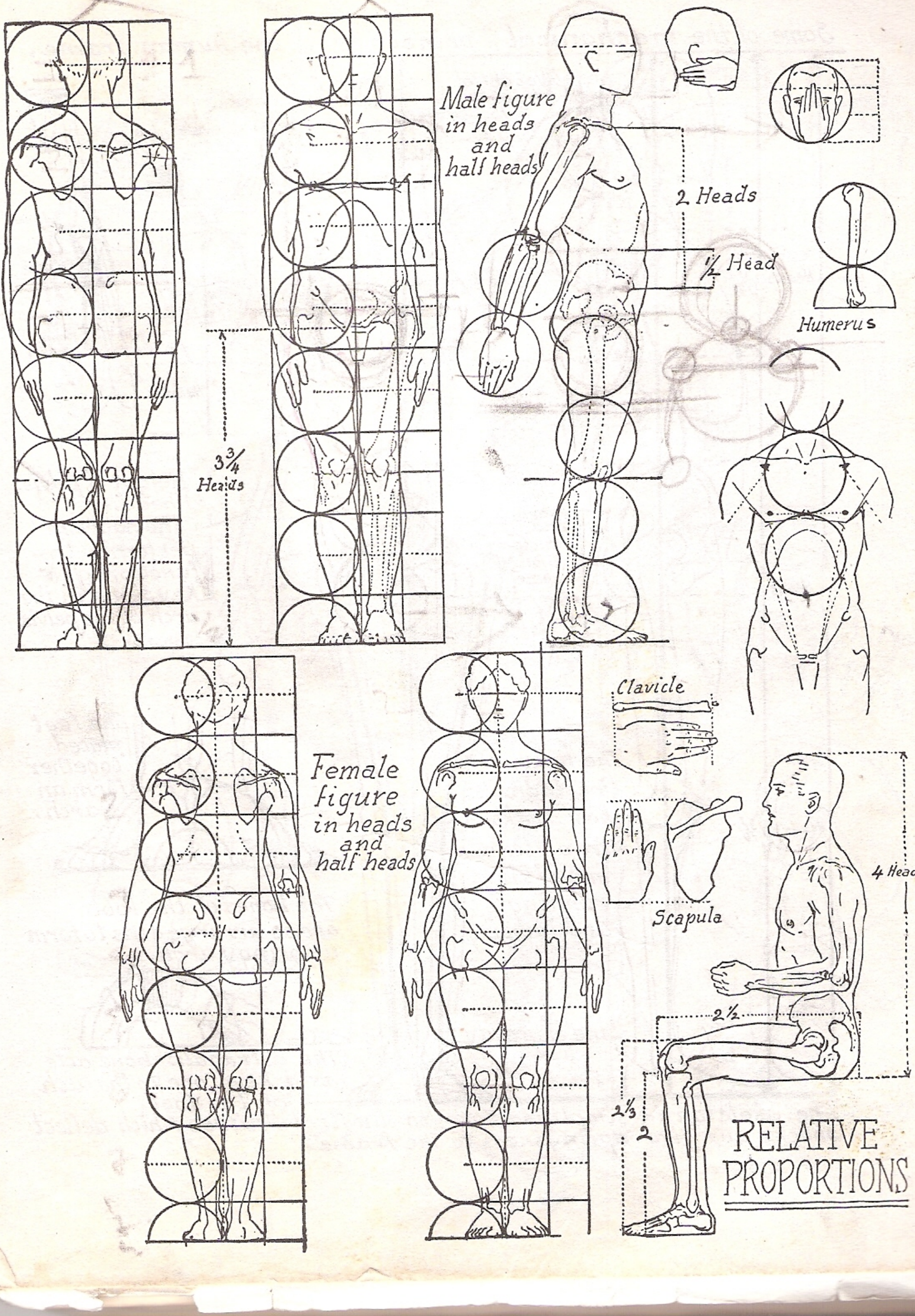
General Observations. The clavicle bone continues to grow for a considerable period after the other bones of the body have attained their full development and therefore the shoulders are said to broaden

Only very tall people have a height of eight heads. Short people are seven heads or less. The muscles of the adult account for about one half the weight of the body.

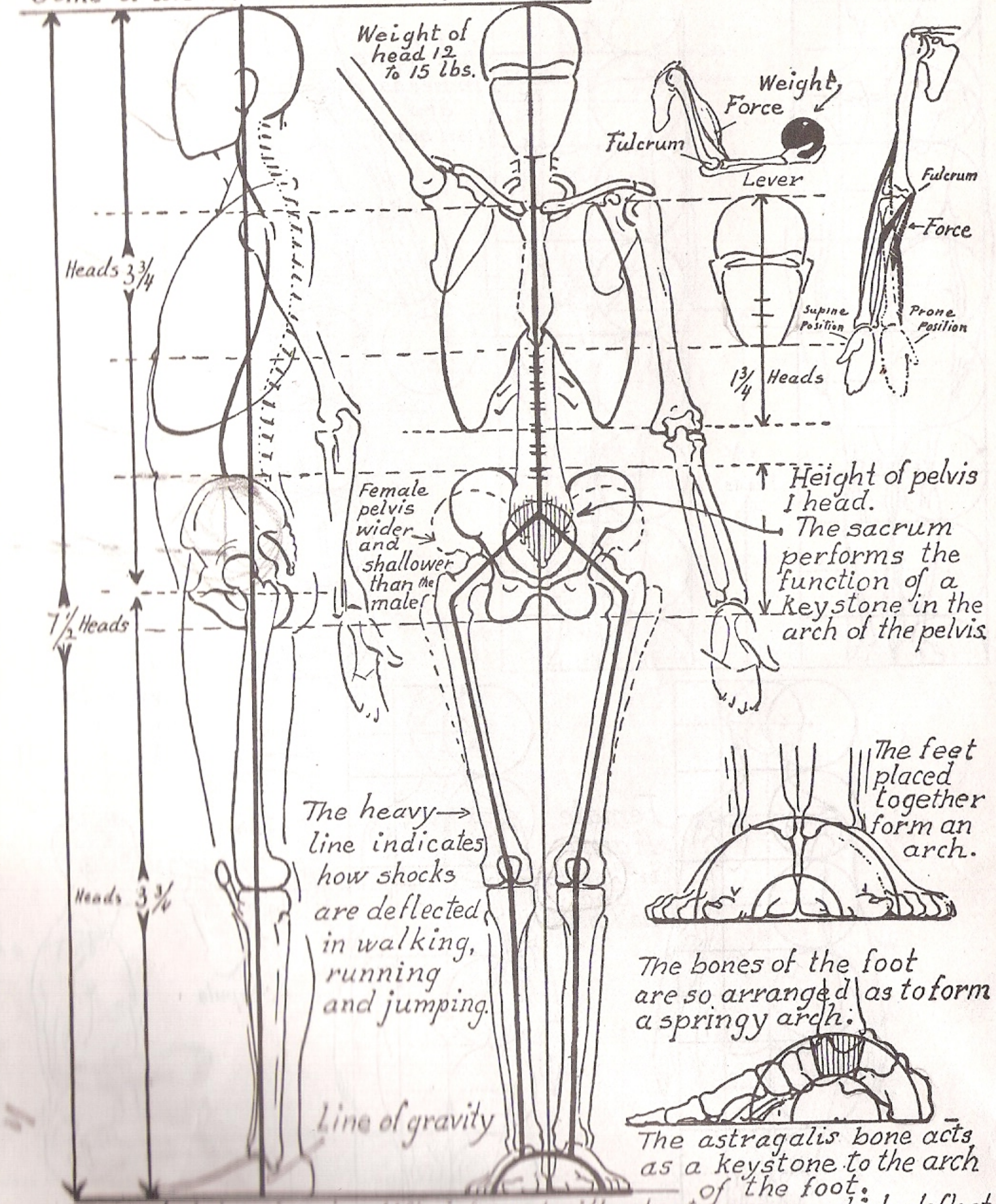
The skeleton always provides the proportions of the figure with slight allowances for the padding between the joints, between each vertebra, and under the heel and foot. In old age the figure shortens due to the hardening and shrinking of the cartilages between the bones.

PART I
PROPORTION
AND
DRAWING

RELATIVE PROPORTIONS


Male figure in heads and half heads
2 Heads
½ Head
3¾ Heads
Humerus
Clavicle
Scapula
Female figure in heads and half heads
4 Heads
2½
2⅓
2

Some of the mechanical principles of the human frame.


Weight of head 12 to 15 lbs.
Weight
Force
Fulcrum
Lever
Fulcrum
Force
Supine Position
Prone Position
1 3/4 Heads
Heads 3 3/4
7 1/2 Heads
Heads 3 3/4
Female pelvis wider and shallower than the male
Line of gravity

Height of pelvis 1 head.

The sacrum performs the function of a keystone in the arch of the pelvis.

The heavy line indicates how shocks are deflected in walking, running and jumping.

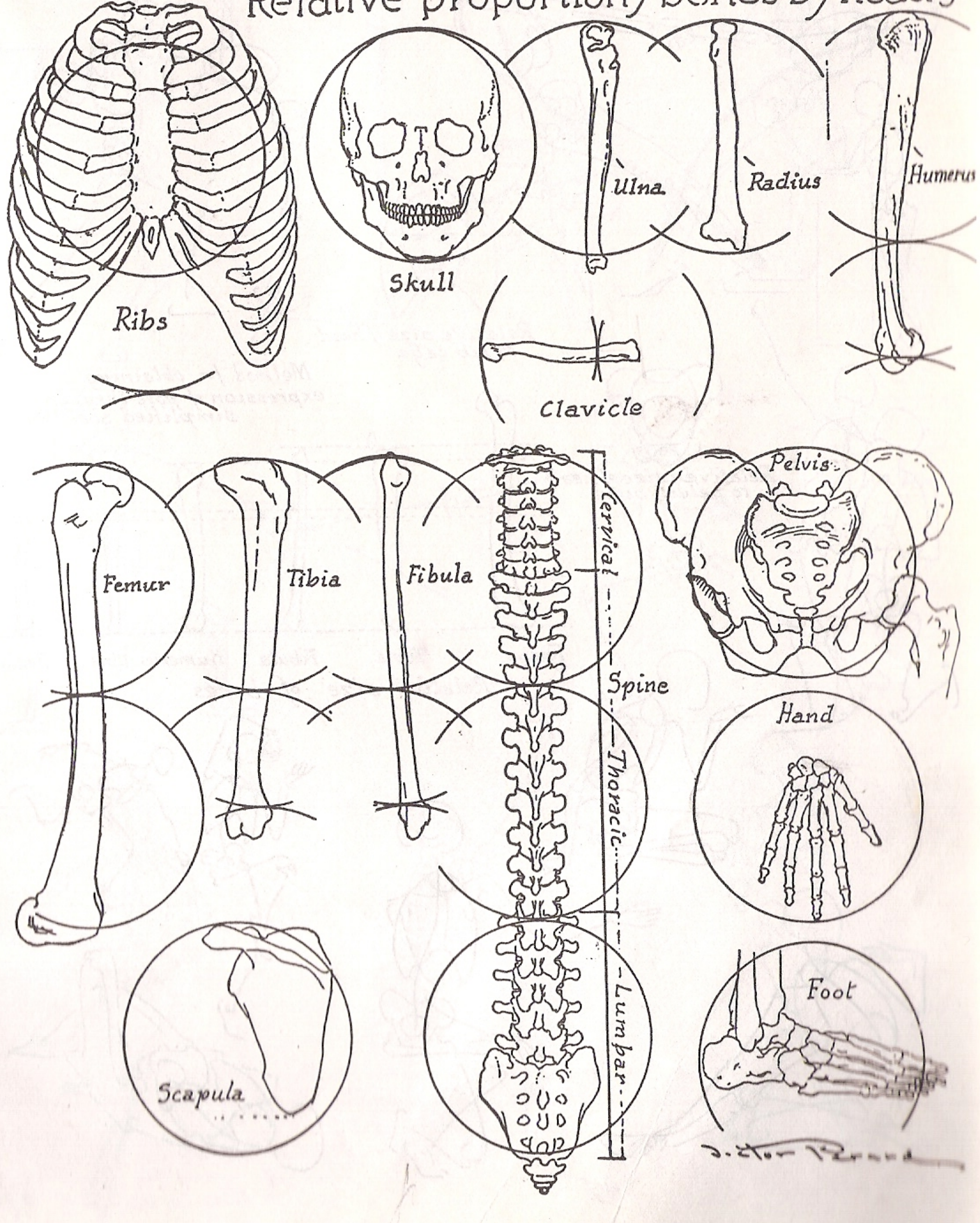
The feet placed together form an arch.

The bones of the foot are so arranged as to form a springy arch.

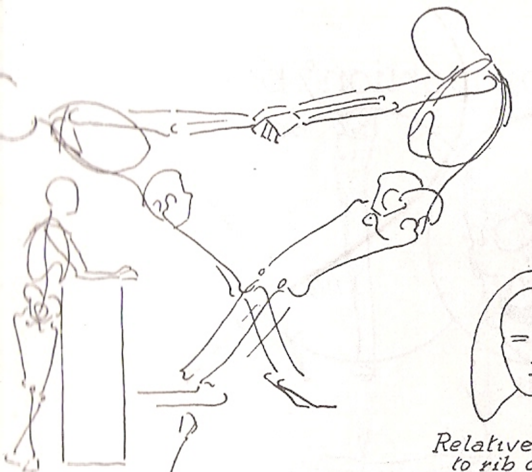
The astragalis bone acts as a keystone to the arch of the foot.

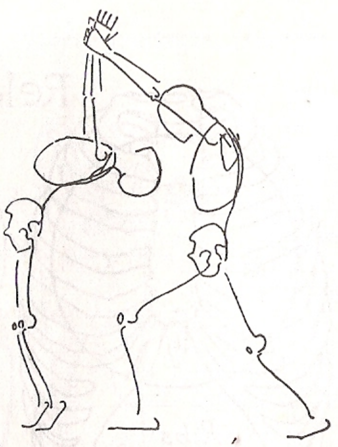
The skeleton in simplified form to illustrate curves which deflect shocks and give springiness to the frame.

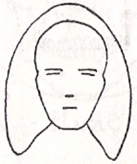
Relative proportion of bones by heads


Ribs
Skull
Ulna
Radius
Humerus
Clavicle
Femur
Tibia
Fibula
Cervical
Spine
Thoracic
Lumbar
Pelvis
Hand
Scapula
Foot

Victor Perard

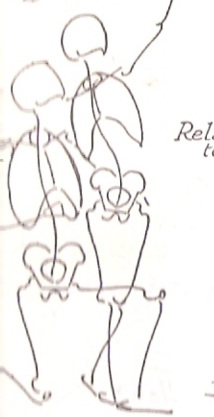


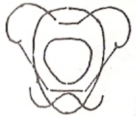




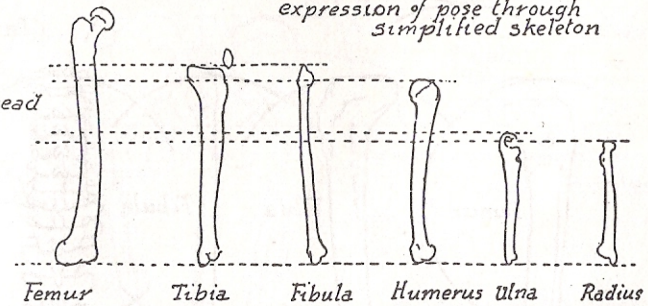
Relative size of head
to rib cage

Method for obtaining
expression of pose through
simplified skeleton

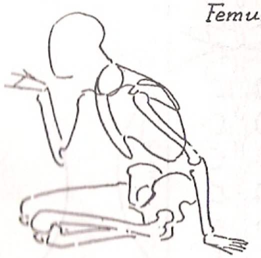


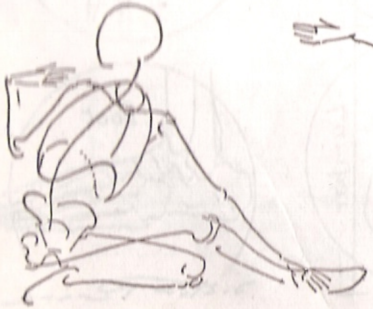


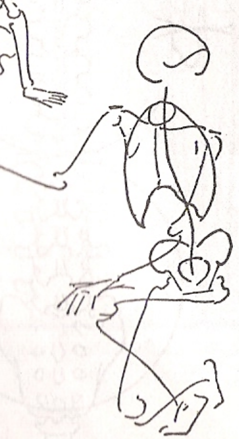
Relative size of head
to pelvic bone

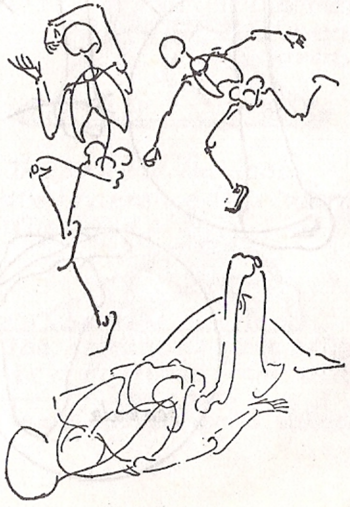

Femur
Tibia
Fibula
Humerus
Ulna
Radius

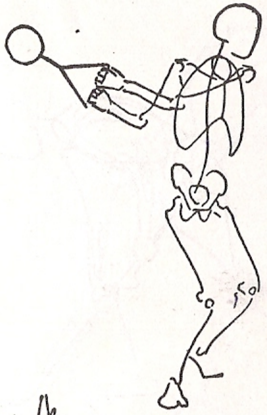
Relative size of bones

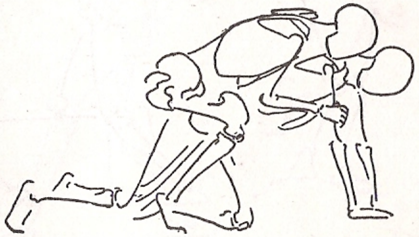


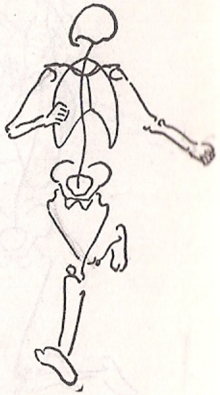


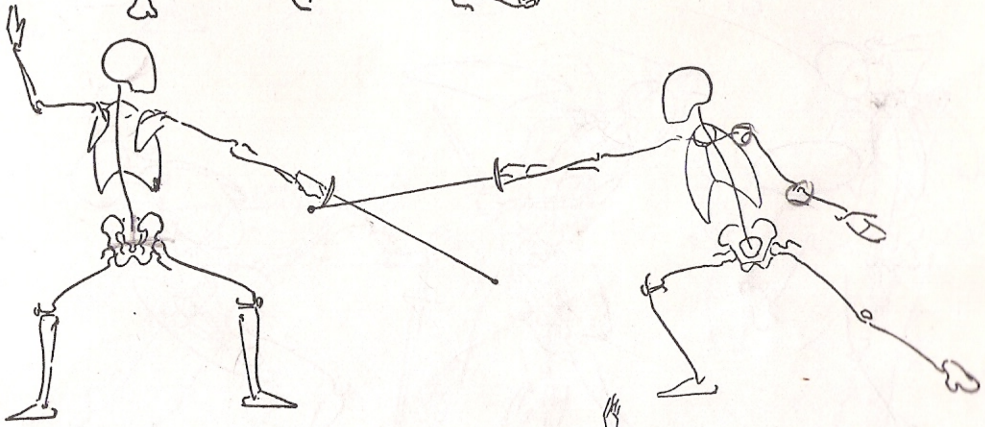


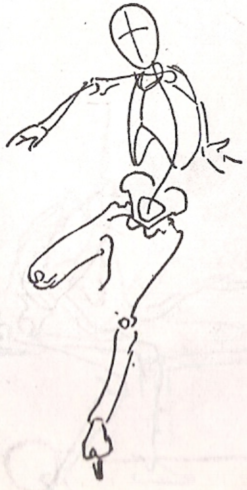


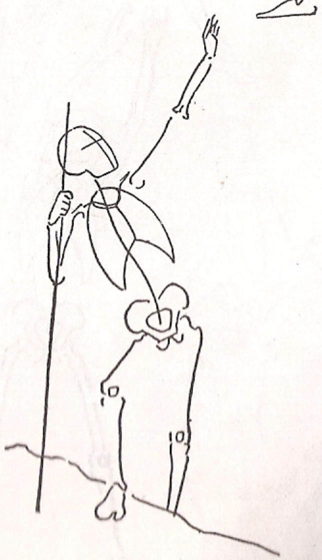


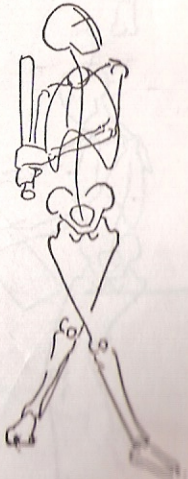


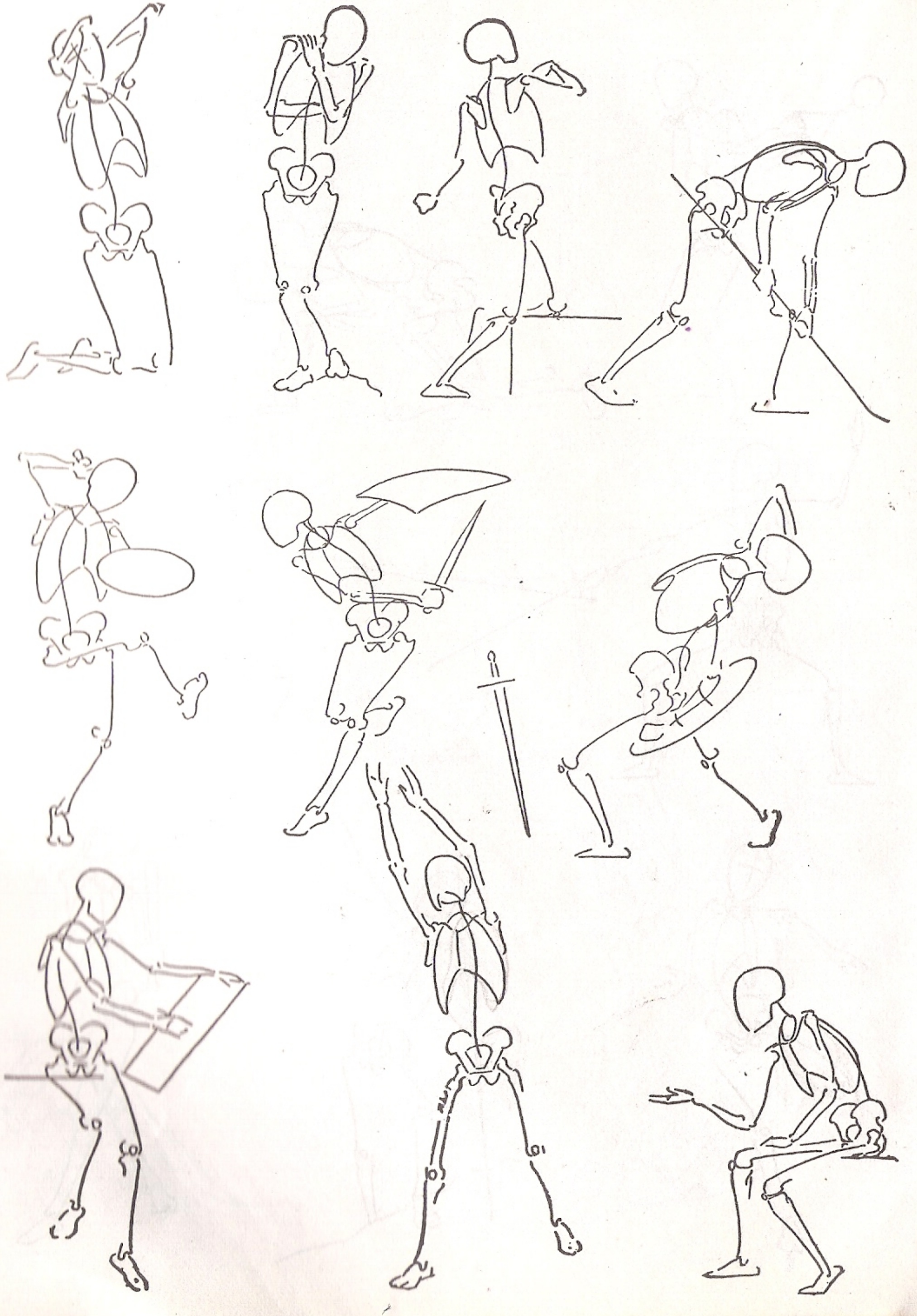


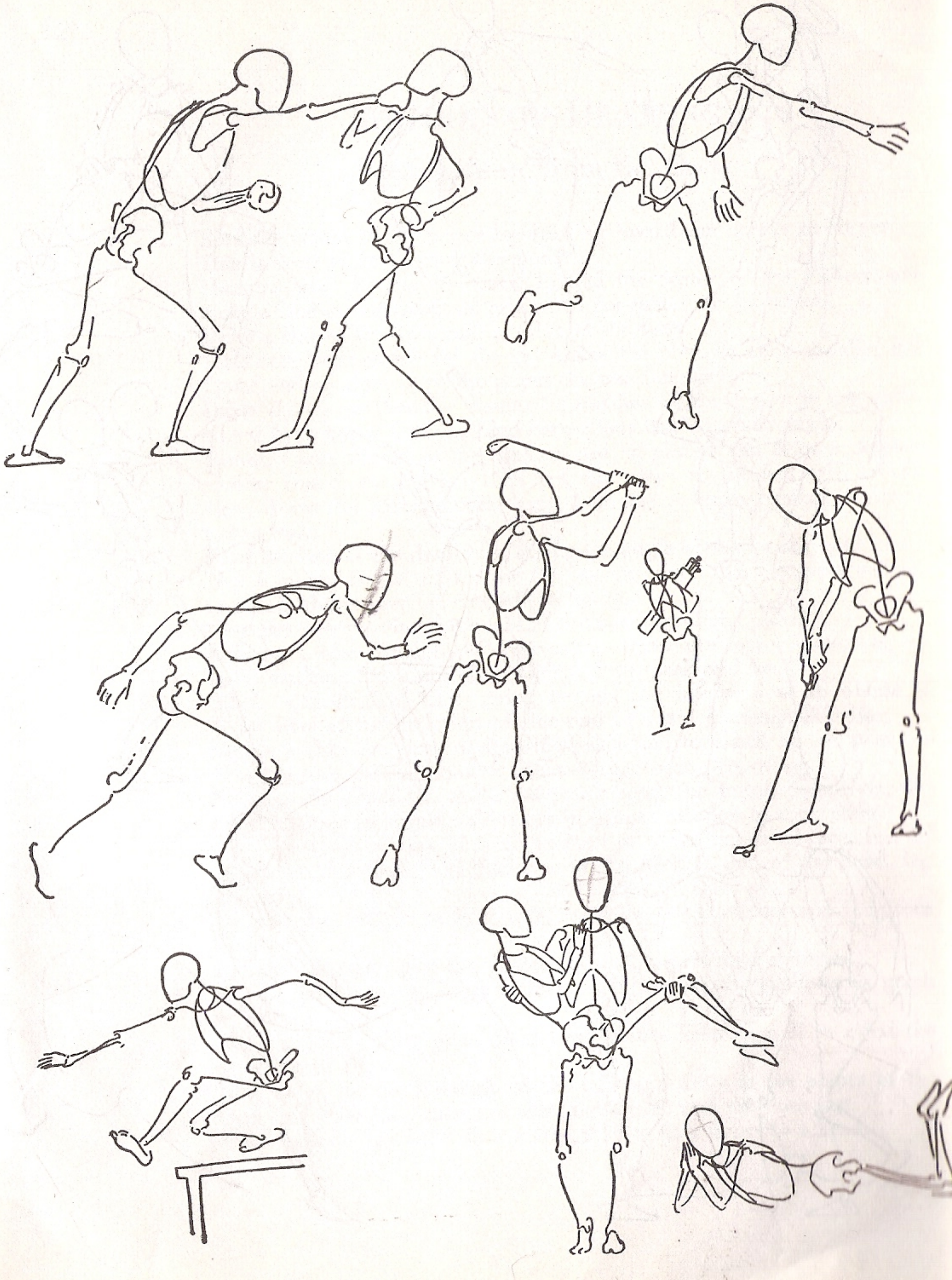


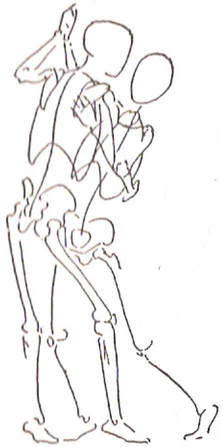


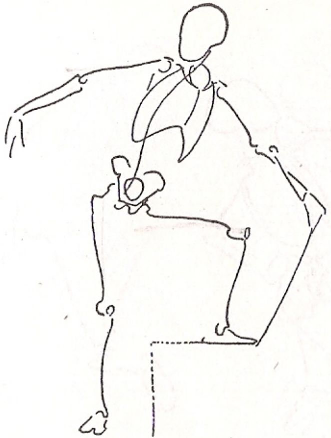


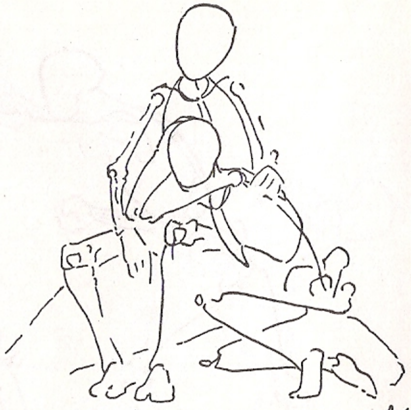


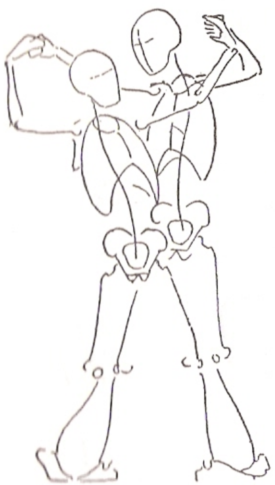


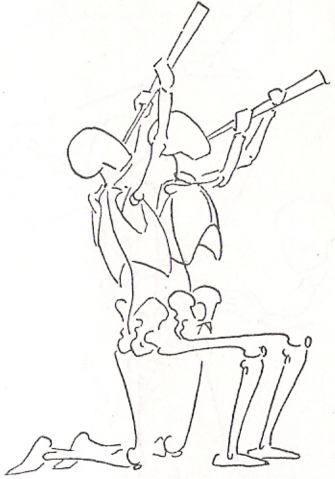


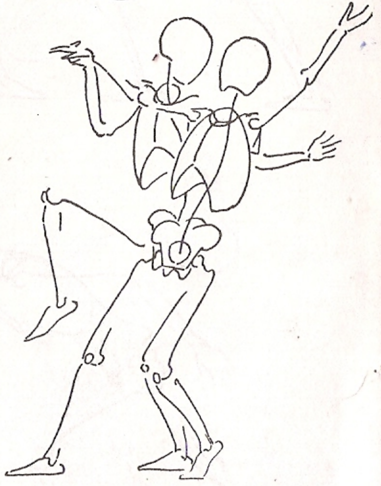


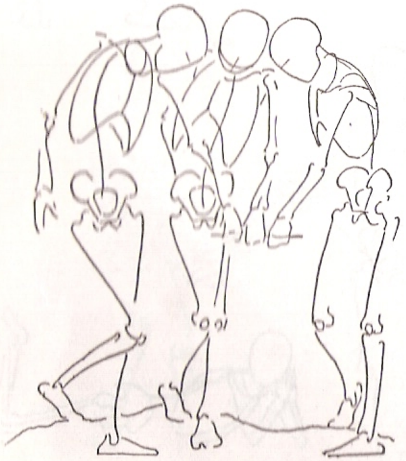


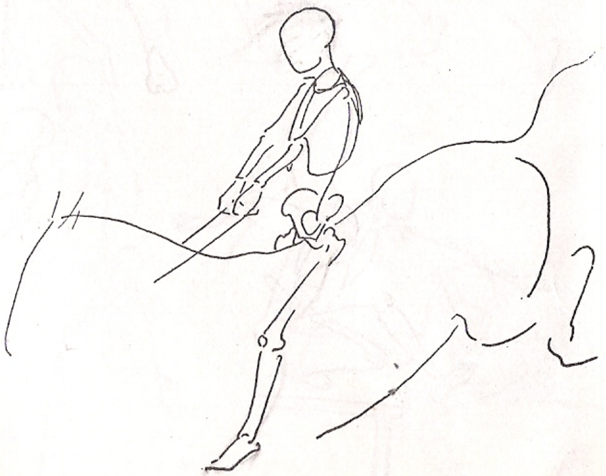








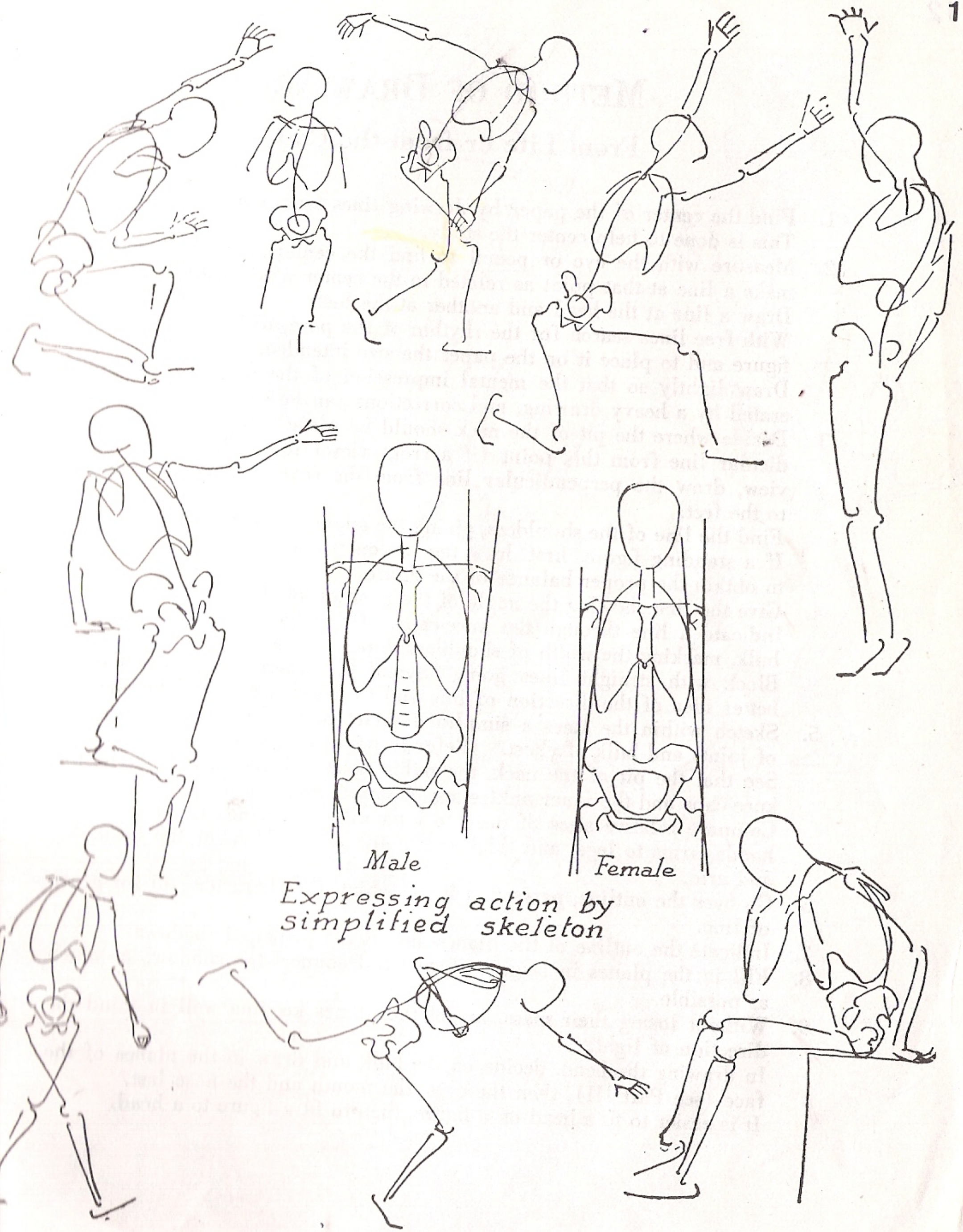




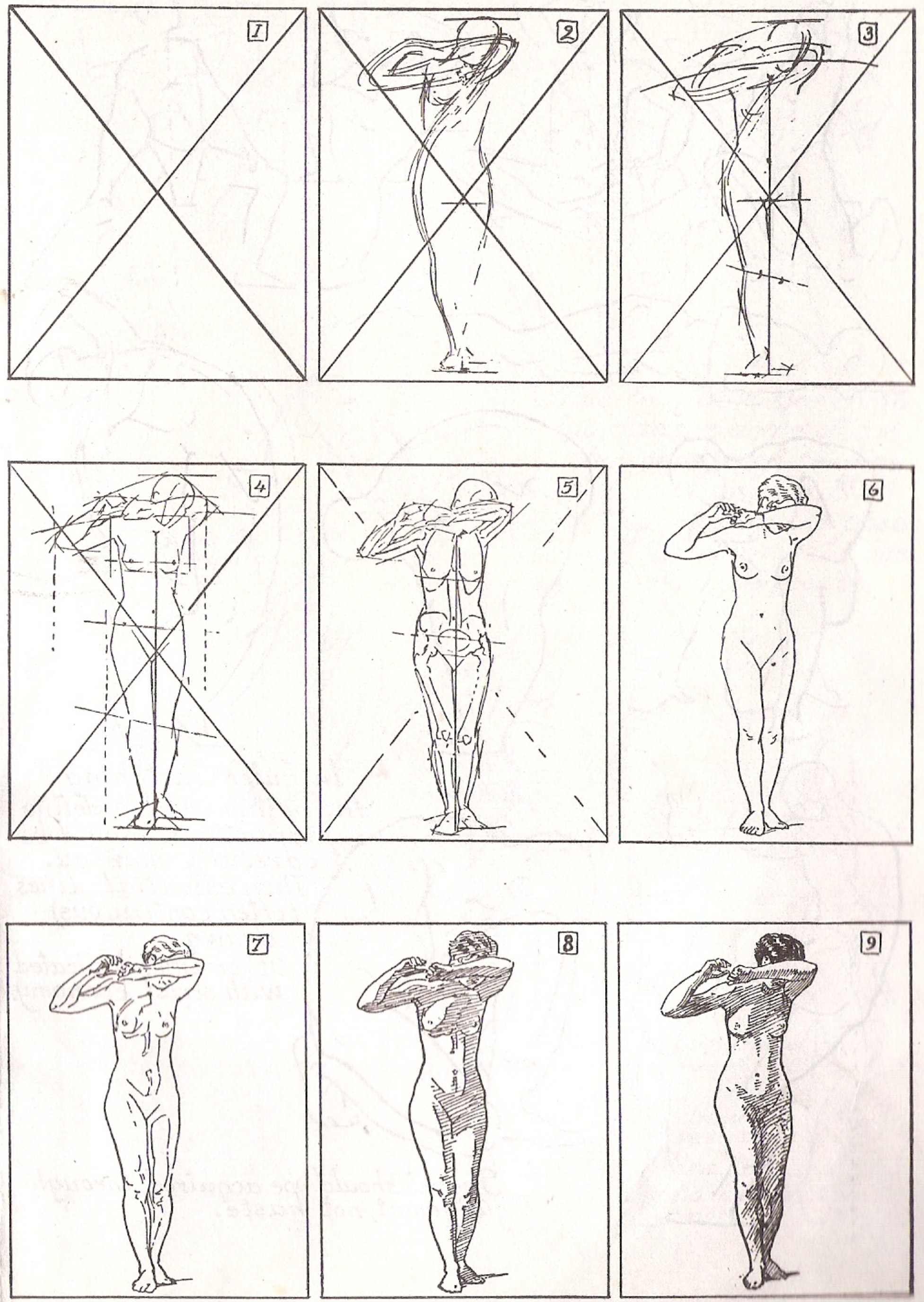
Method of Drawing

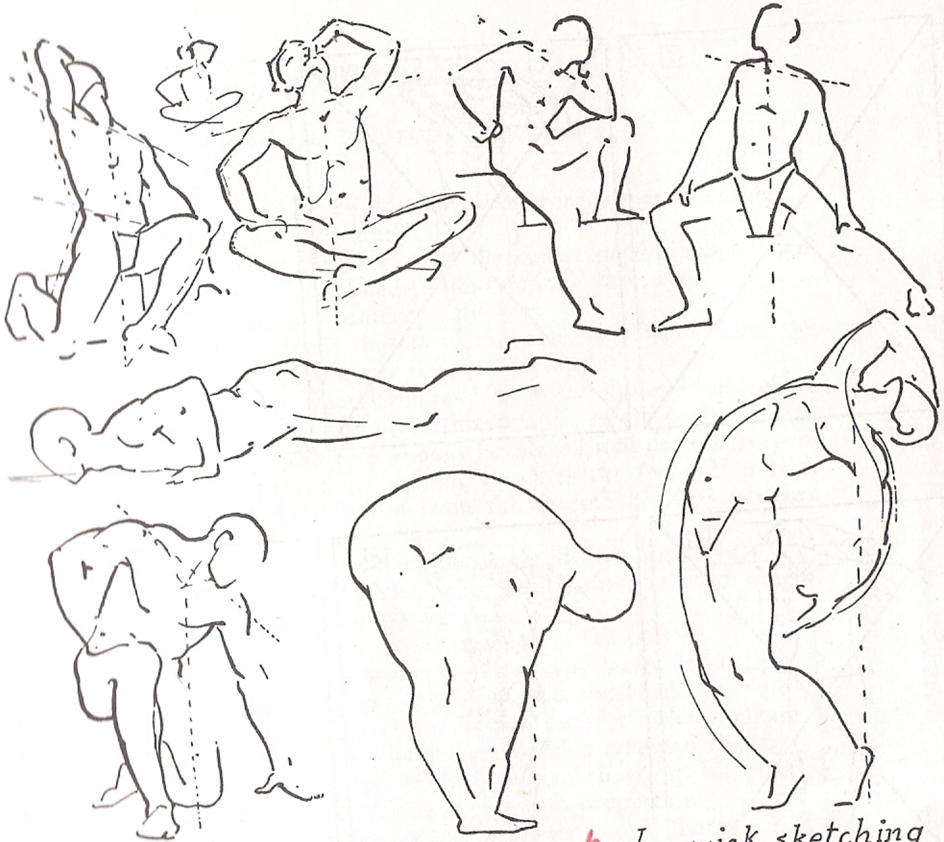
From Life or from the Cast

1. Find the center of the paper by drawing lines from corner to corner. This is done to help center the study.
2. Measure with the eye or pencil to find the center of the subject and make a line at that point as related to the center of the paper.
   Draw a line at the head and another at the feet.
   With free lines search for the rhythm of the pose, to help visualize the figure and to place it on the paper the size intended.
   Draw lightly so that the mental impression of the figure is not obliterated by a heavy drawing, and corrections can be easily made.
3. Decide where the pit of the neck should be placed and draw a perpendicular line from this point (if a front view) to the feet. If a back view, draw the perpendicular line from the seventh cervical vertebra to the feet.
   Find the line of the shoulders, giving the angle of their positions.
   If a standing figure, first draw the leg on which there is most weight, to obtain the proper balance of the figure.
4. Give the line showing the angle of the position of the pelvis.
   Indicate a line through the knee-caps. Draw the torso, indicating its bulk, marking the width of shoulders, hips, neck and head.
   Block with straight lines going beyond the intersections to obtain a better idea of the direction of line and to avoid a cramped feeling.
5. Sketch within the lines a simplified skeleton, to check up on position of joints and bulk of chest. (Refer to pages on proportion.)
   See that the pit of the neck, the pubic bone, the navel, the pelvis, the knee-caps and the inner ankles are in proper relation to each other.
   Compare relative sizes of head to bulk of torso, hands to face, feet to hands, arms to legs, and thickness of the neck to that of the head, leg and arm.
6. Go over the outline, perfecting it, searching for character and for grace of line.
7. Indicate the outline of the planes and of the principal shadows.
8. Fill in the planes in large surfaces, and connect the shadows as much as possible.
9. Without losing their mass, model the planes keeping well in mind the direction of light.
   In drawing the head, decide on the bulk and draw in the planes of the face (see Part III), then the eyes, the mouth and the nose last.
   It is easier to fit a head on a figure, than to fit a figure to a head.

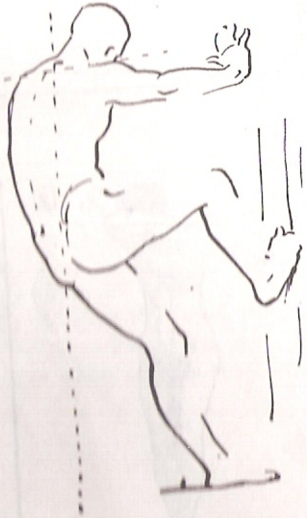

Male
Female

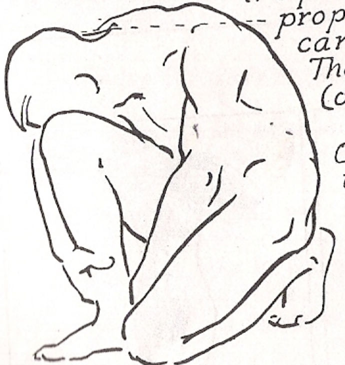
Expressing action by simplified skeleton



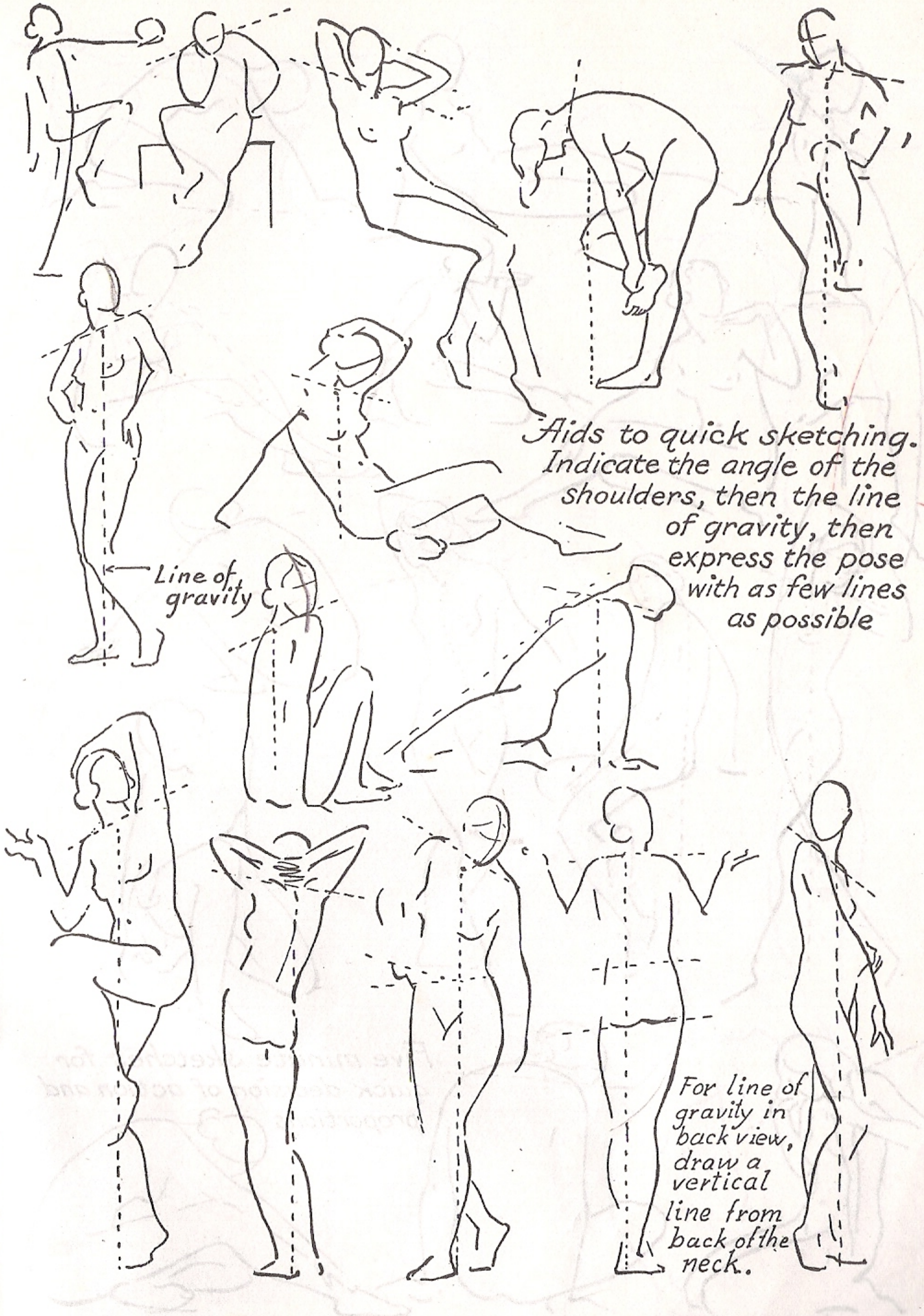


In quick sketching the points used to define proportions should be carefully marked. Then essential lines (often continuous) drawn. Other lines indicated with strict economy.



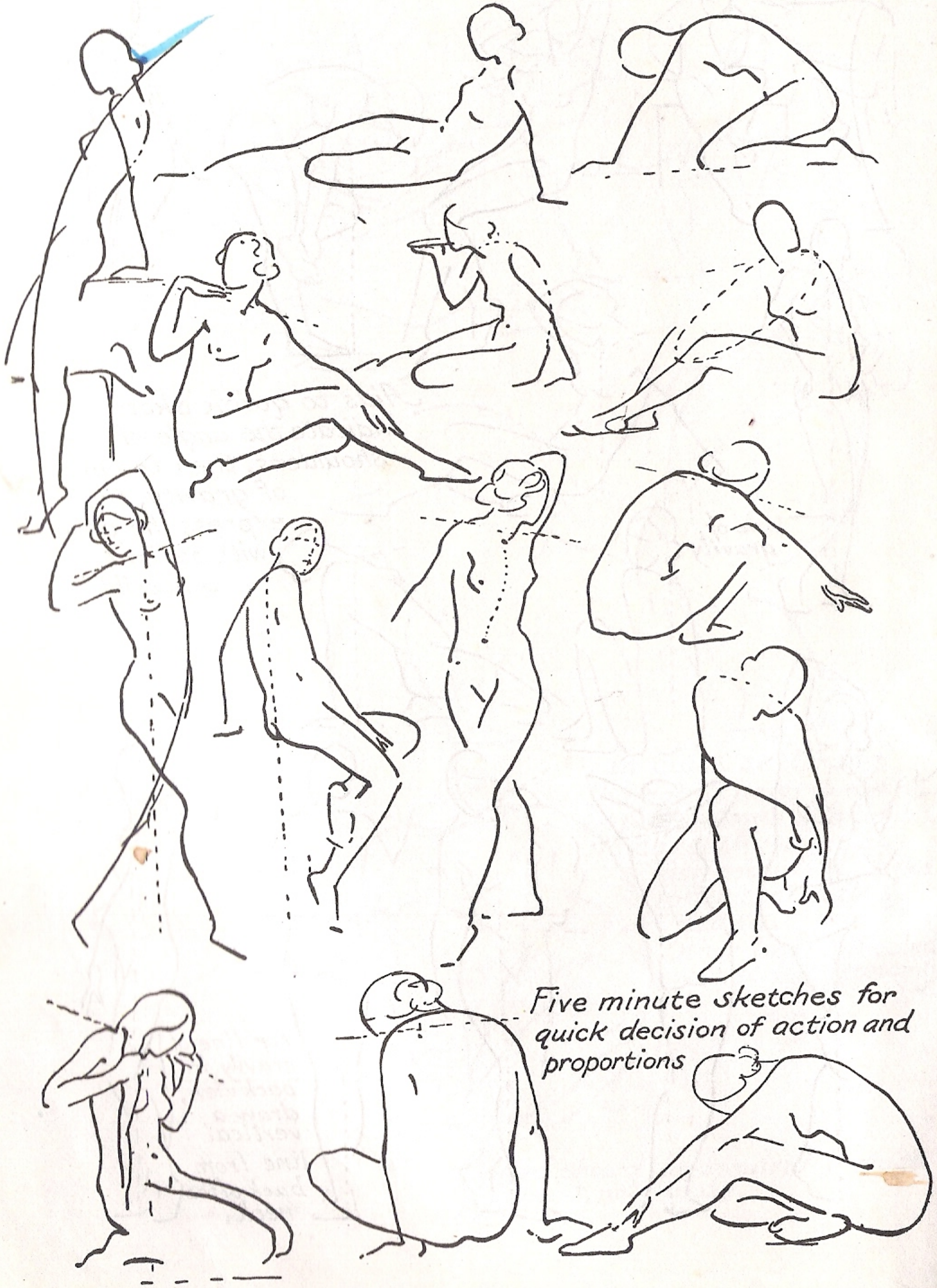


Speed should be acquired through judgment, not haste.

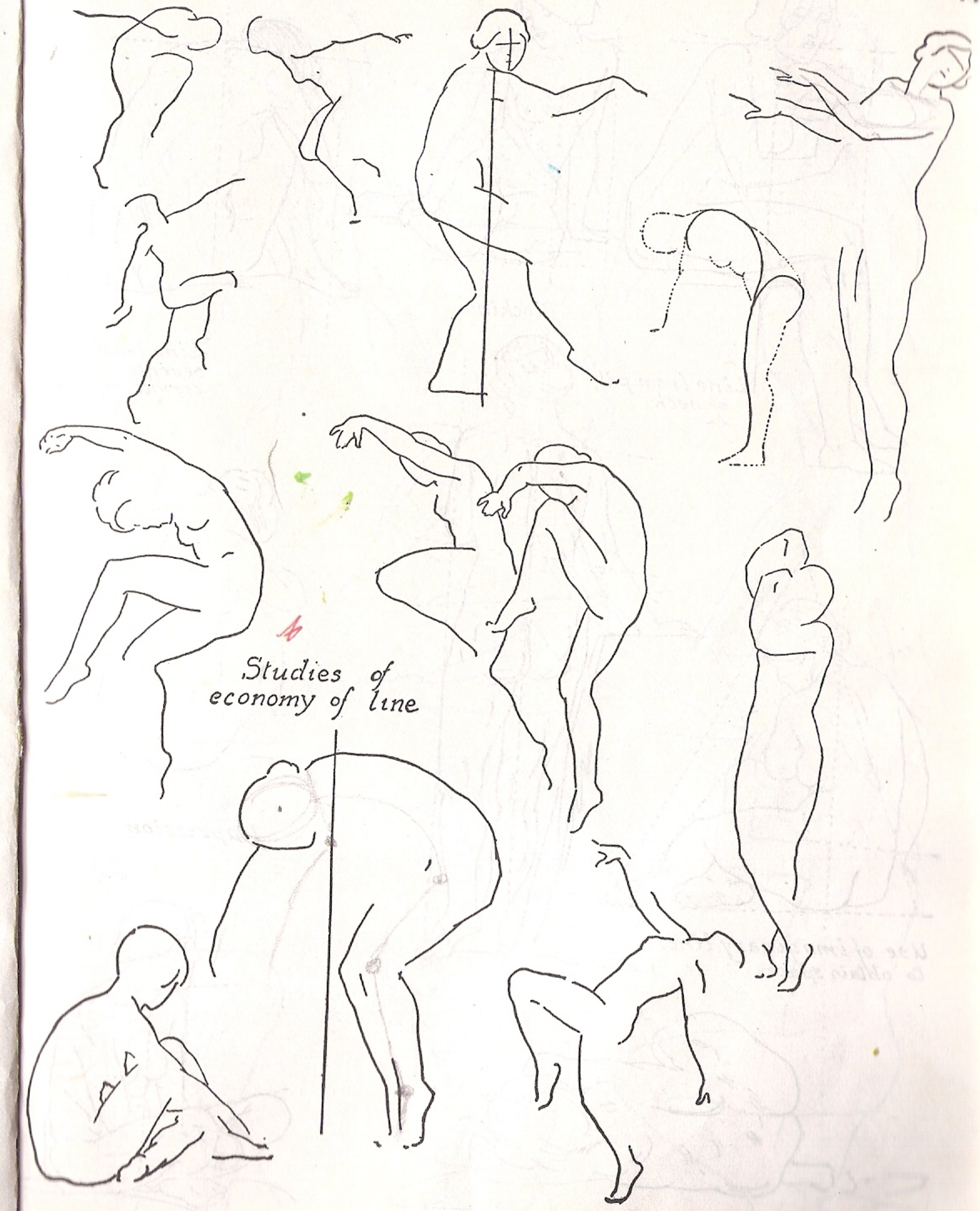


Aids to quick sketching. Indicate the angle of the shoulders, then the line of gravity, then express the pose with as few lines as possible

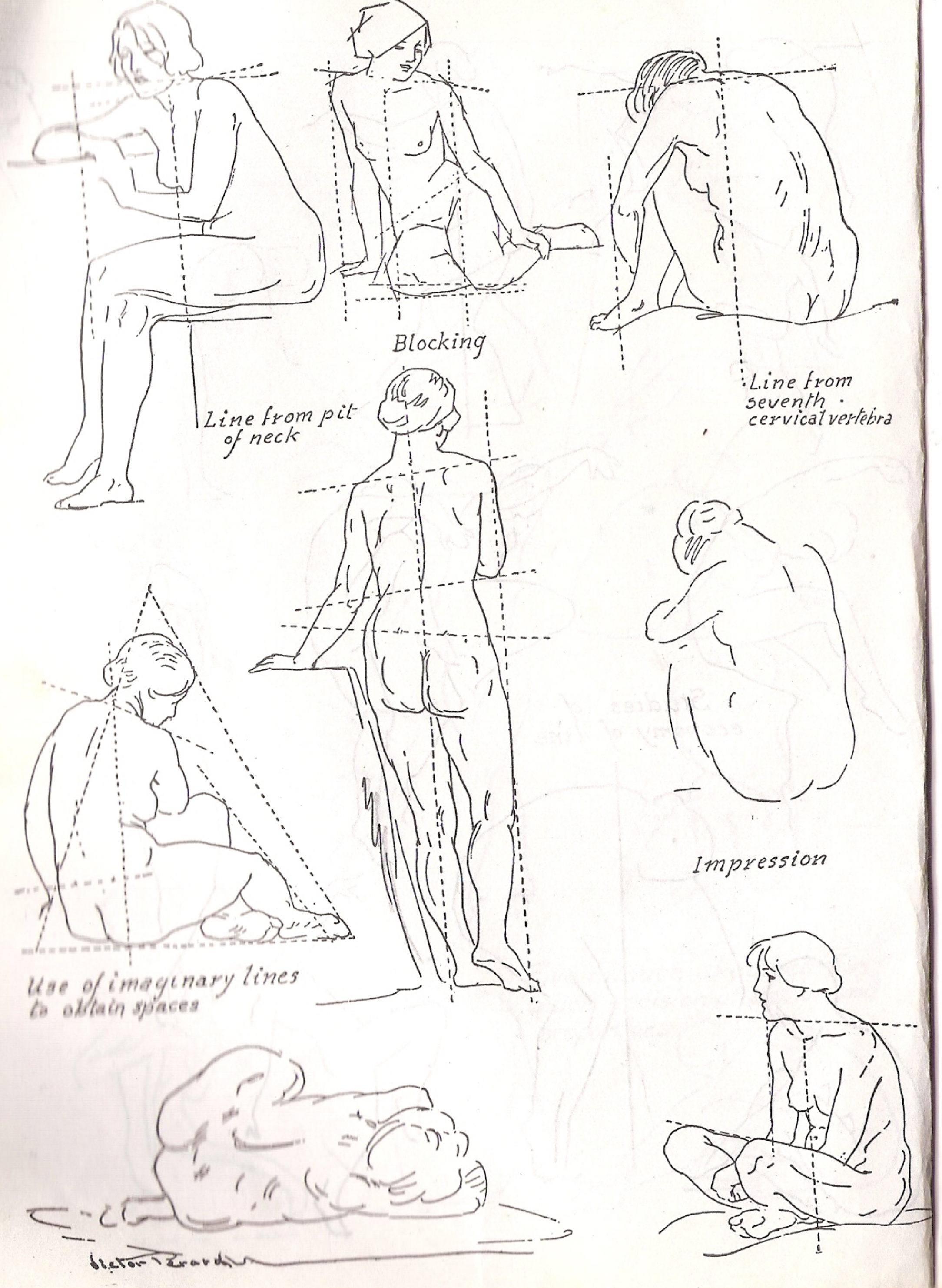
For line of gravity in back view, draw a vertical line from back of the neck.



Five minute sketches for quick decision of action and proportions



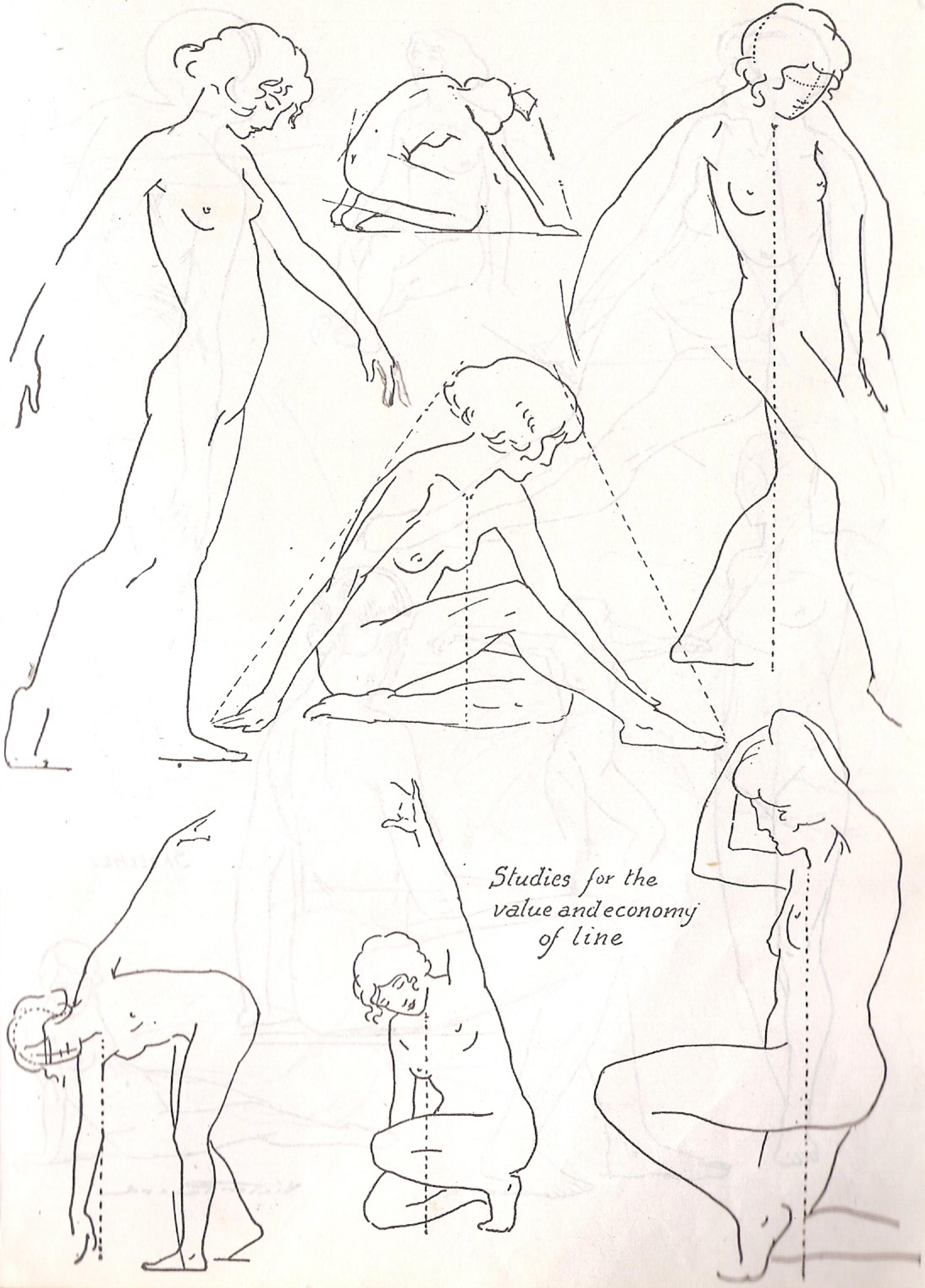
Studies of economy of line


Line from pit of neck
Line from seventh cervical vertebra
Victor Perard

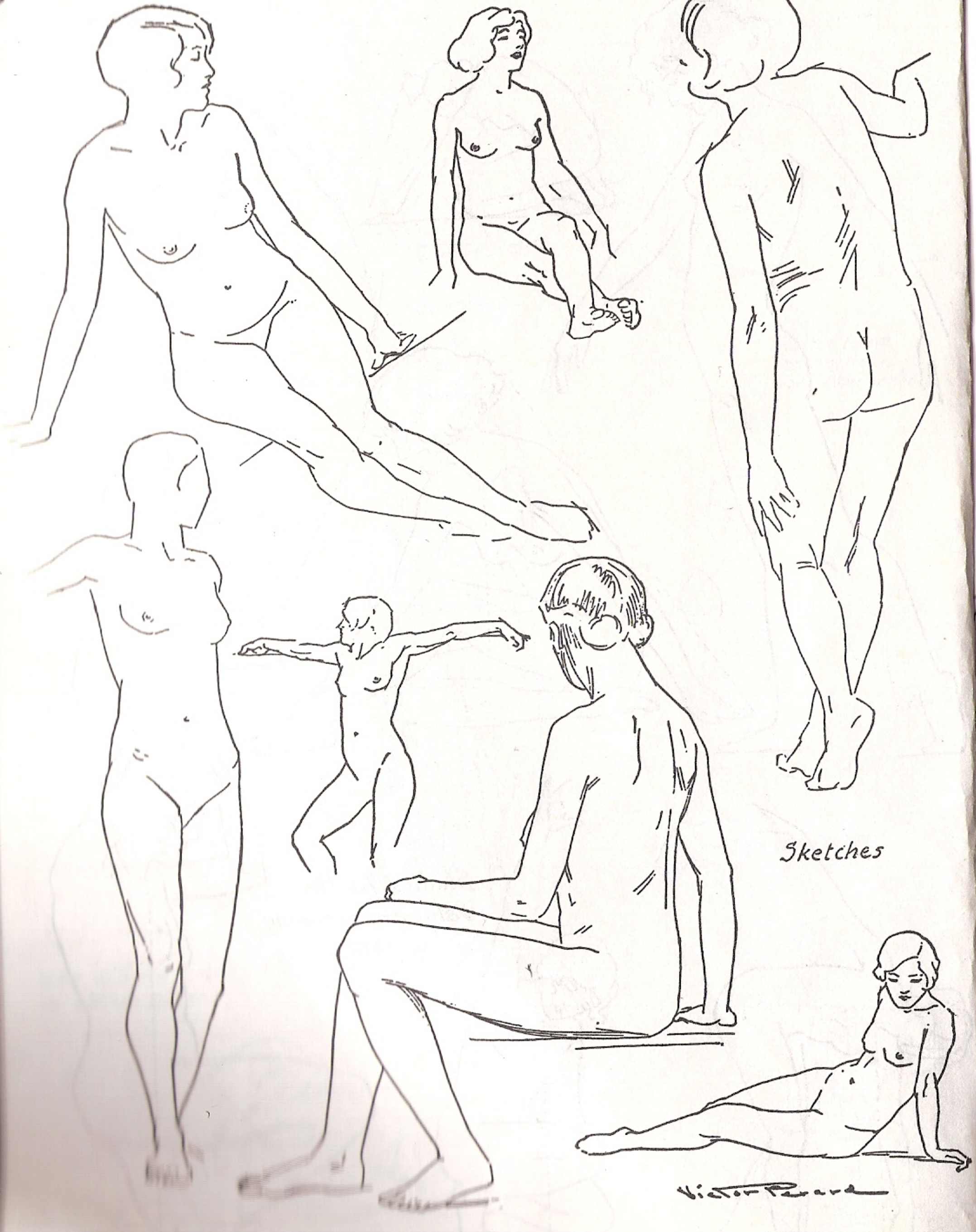
Blocking

Use of imaginary lines to obtain spaces

Impression

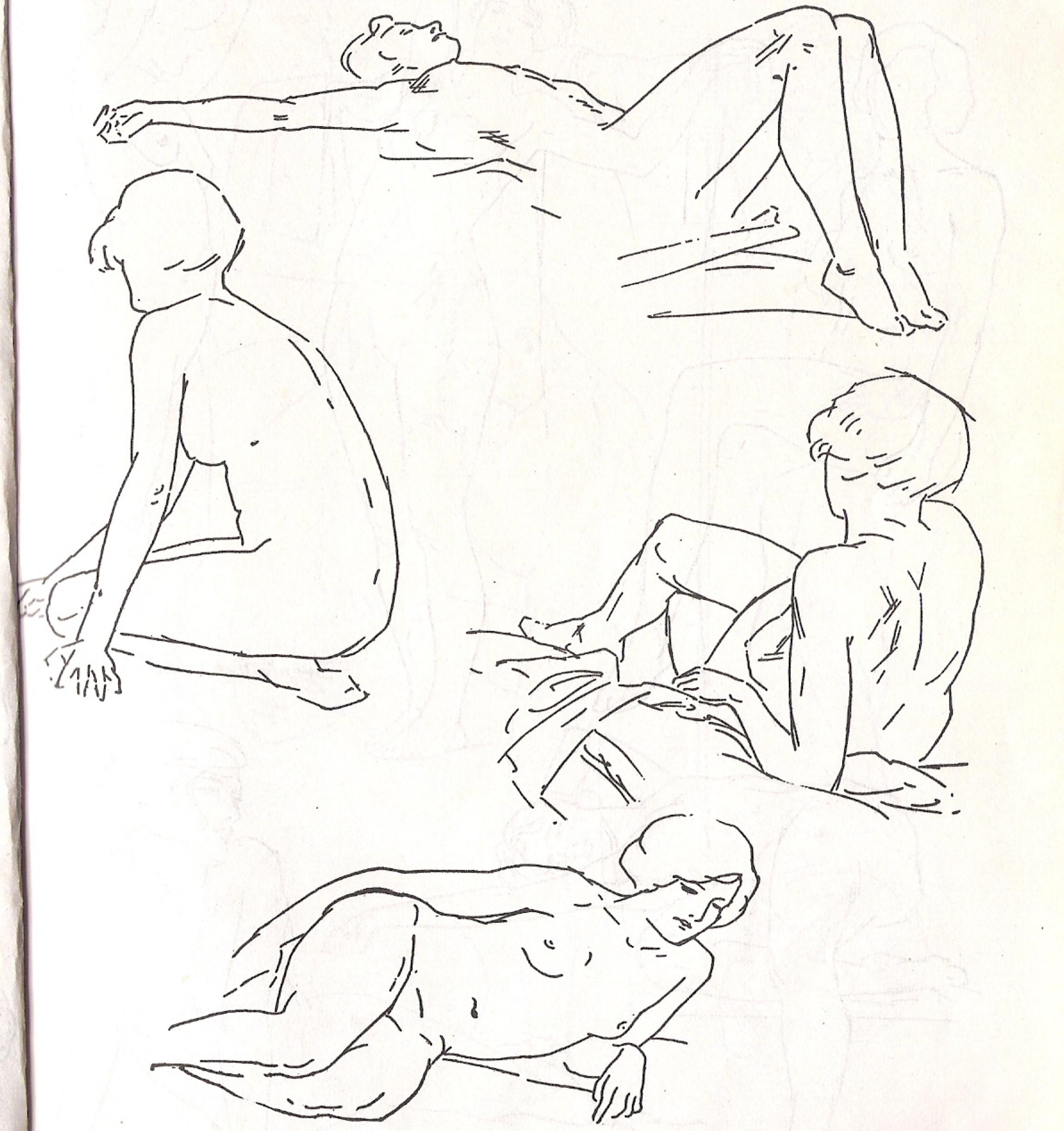


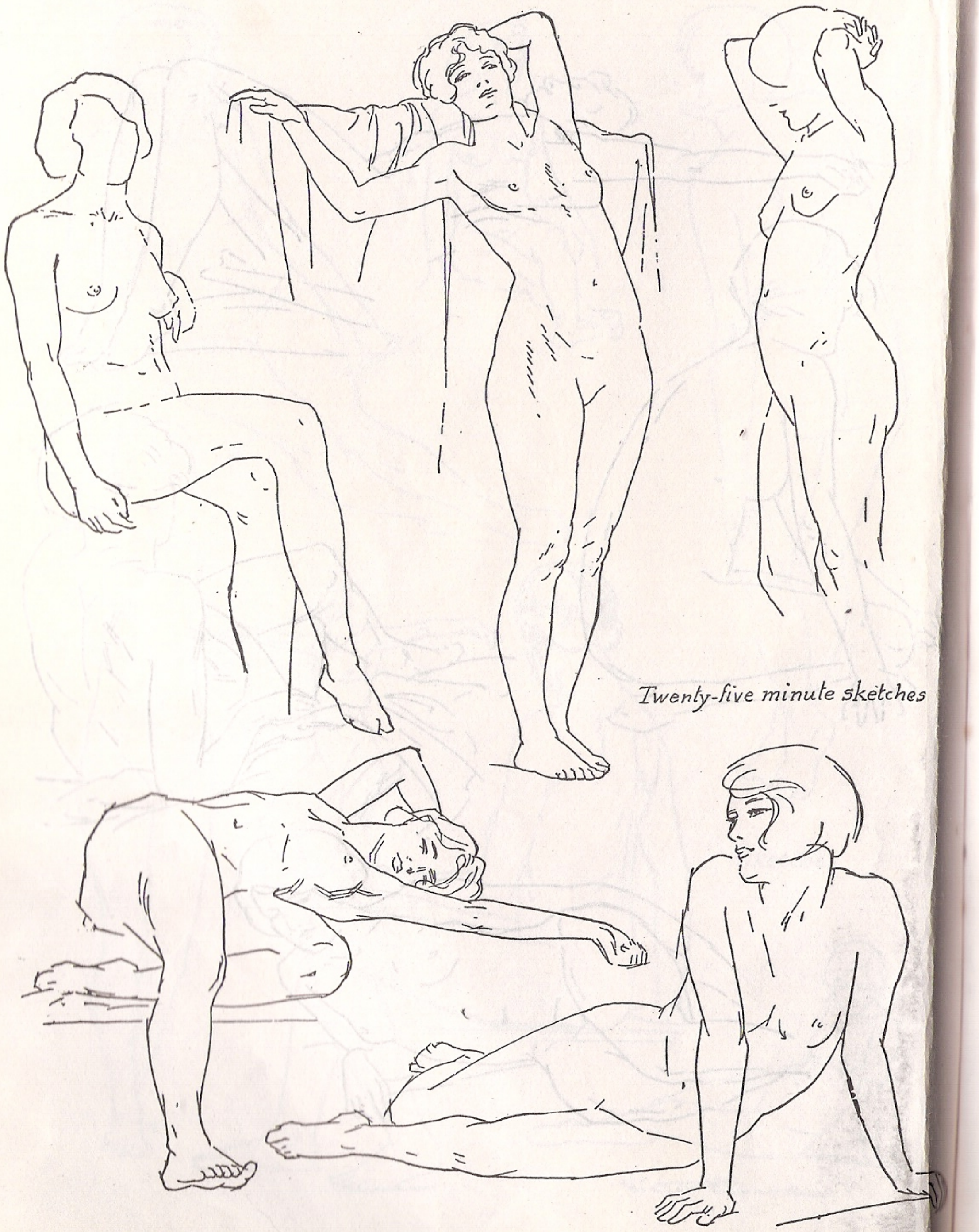
Studies for the value and economy of line



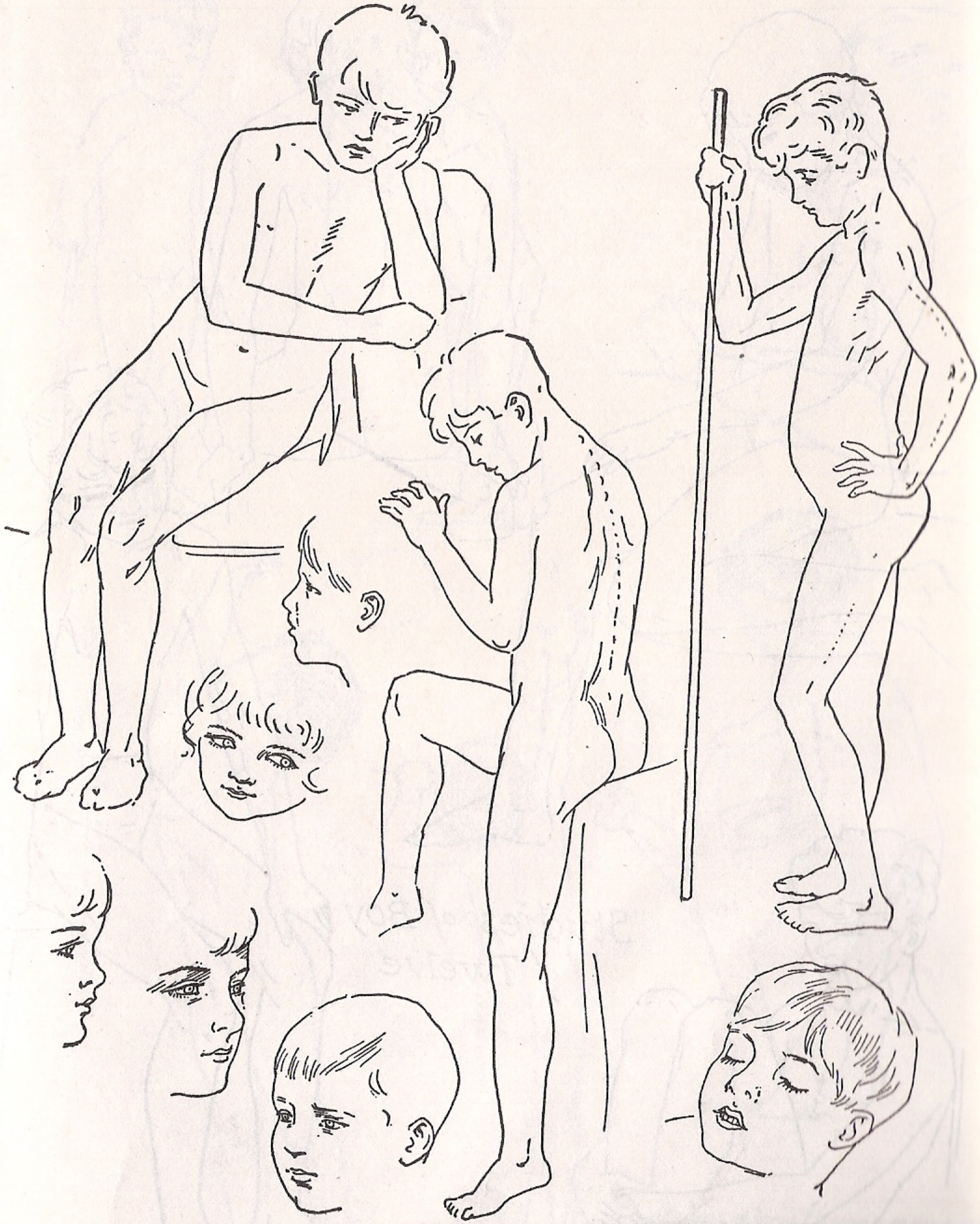
Sketches

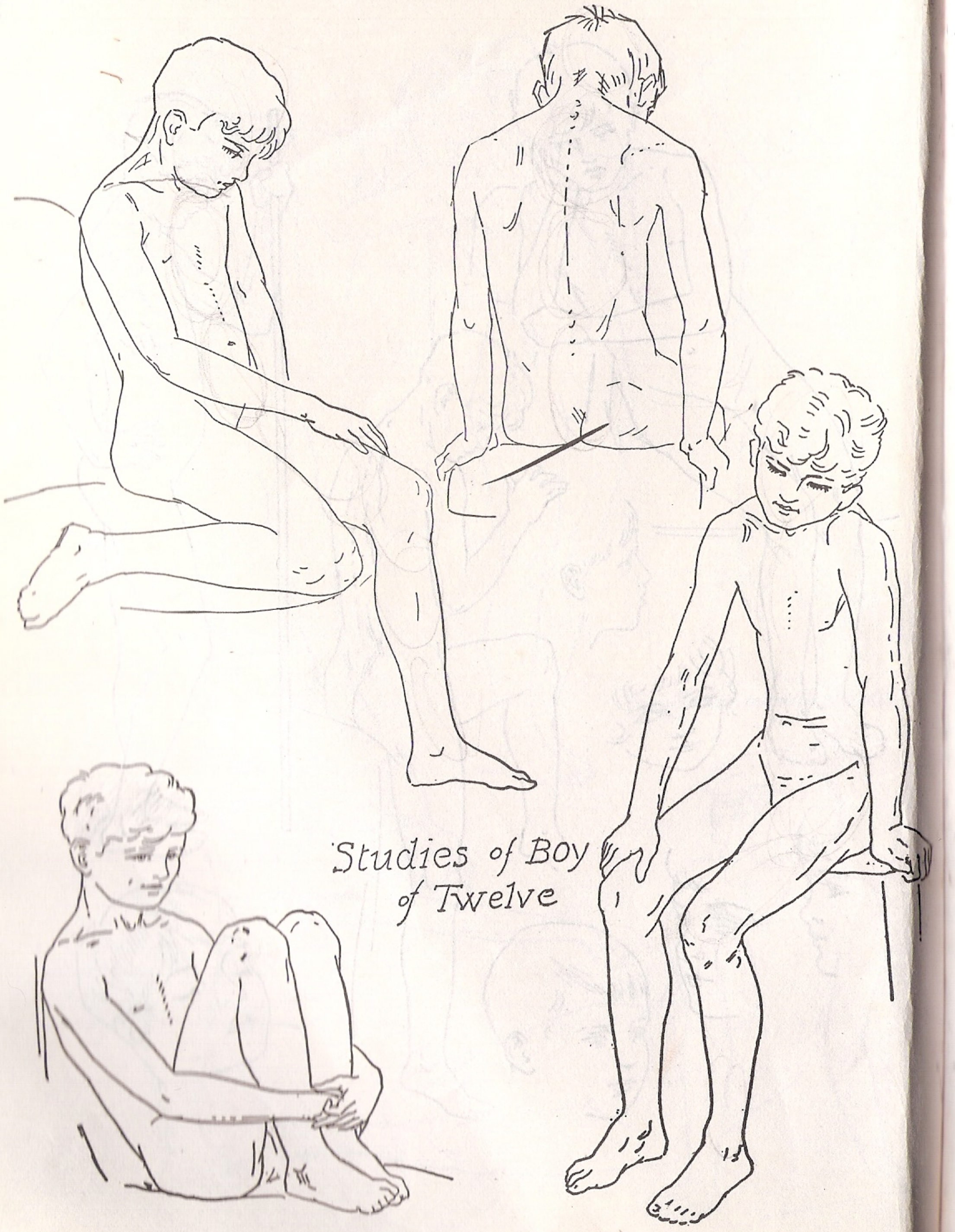
Victor Perard



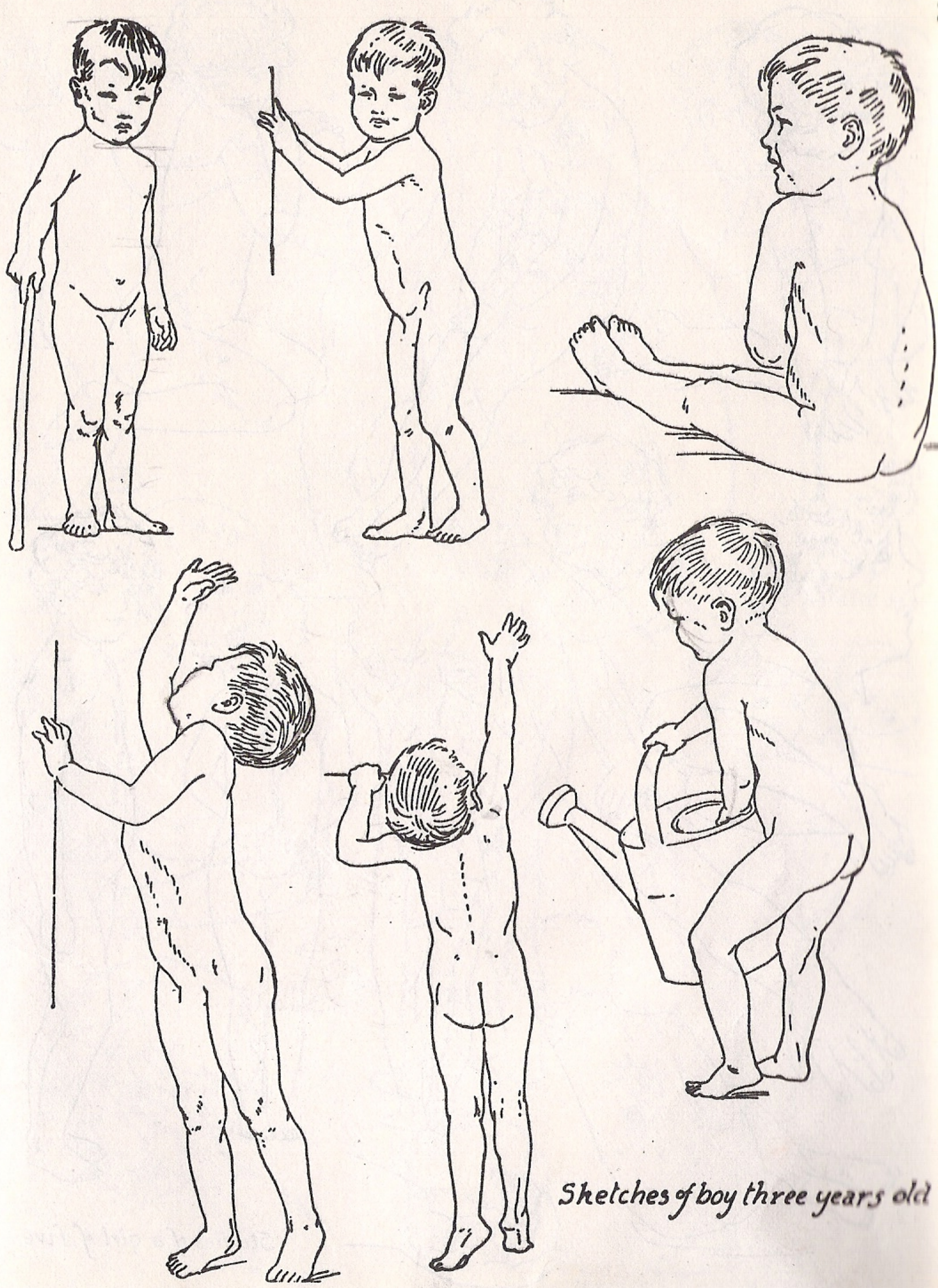


Twenty-five minute sketches

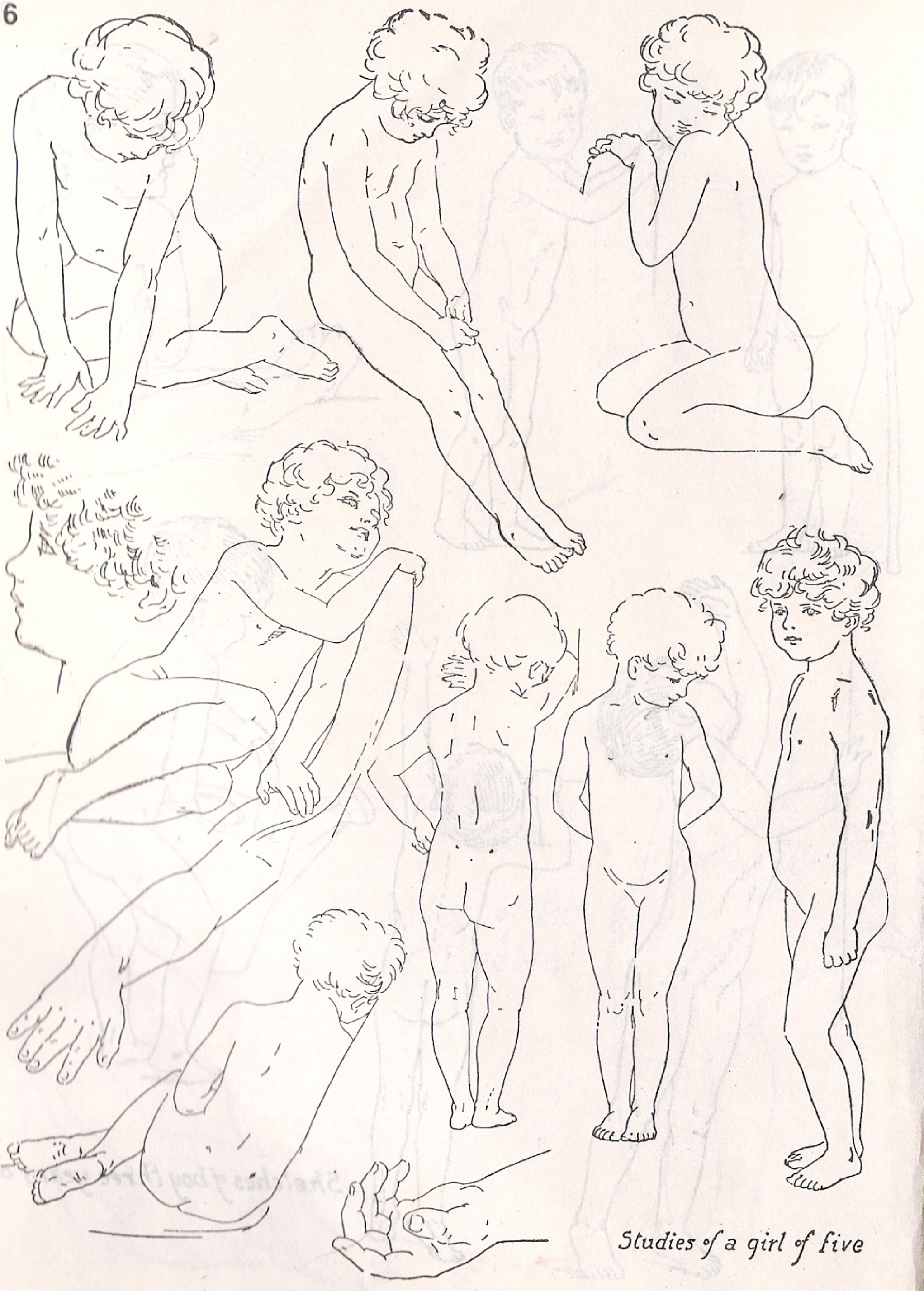




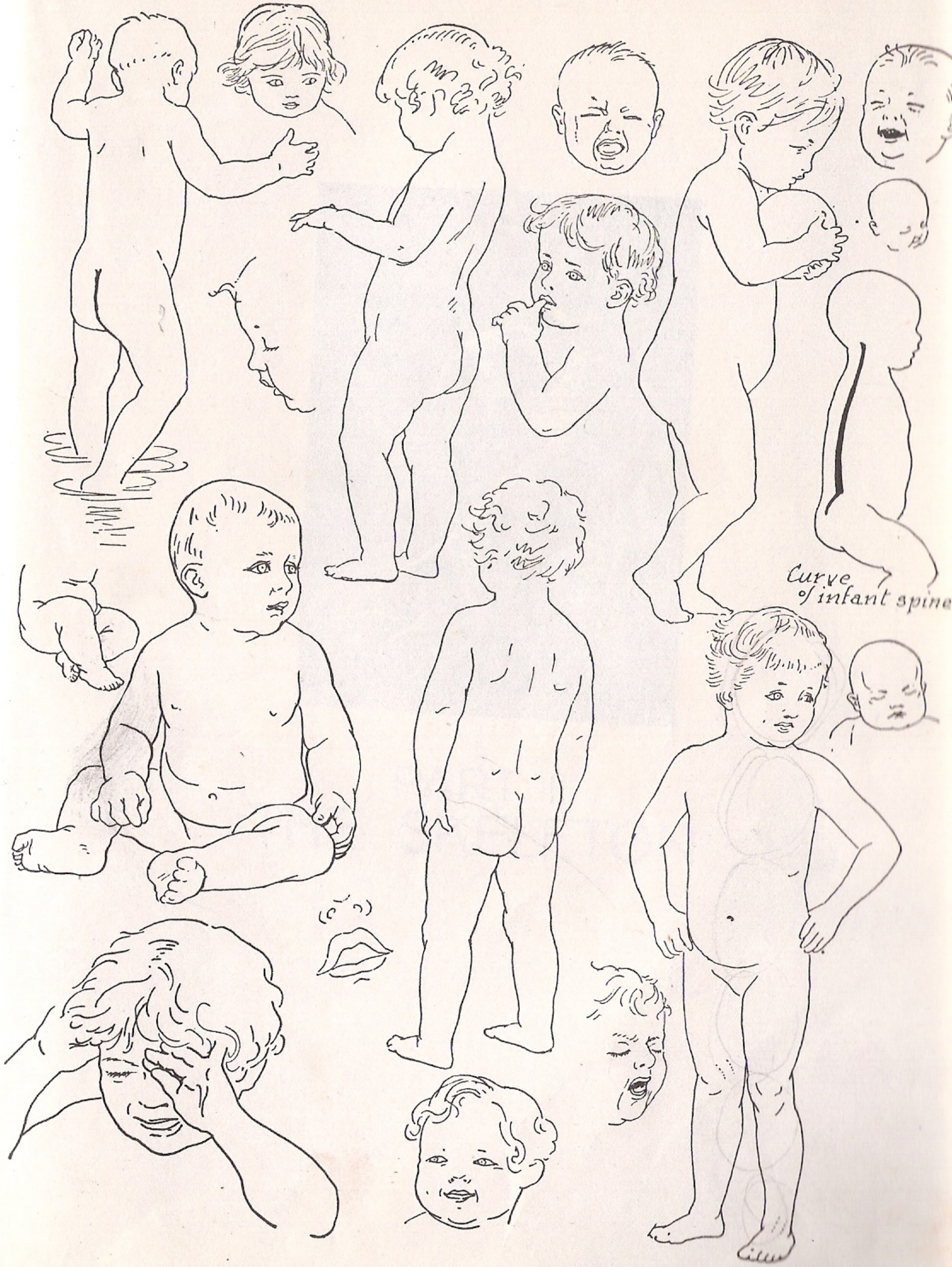
Studies of Boy of Twelve



Sketches of boy three years old

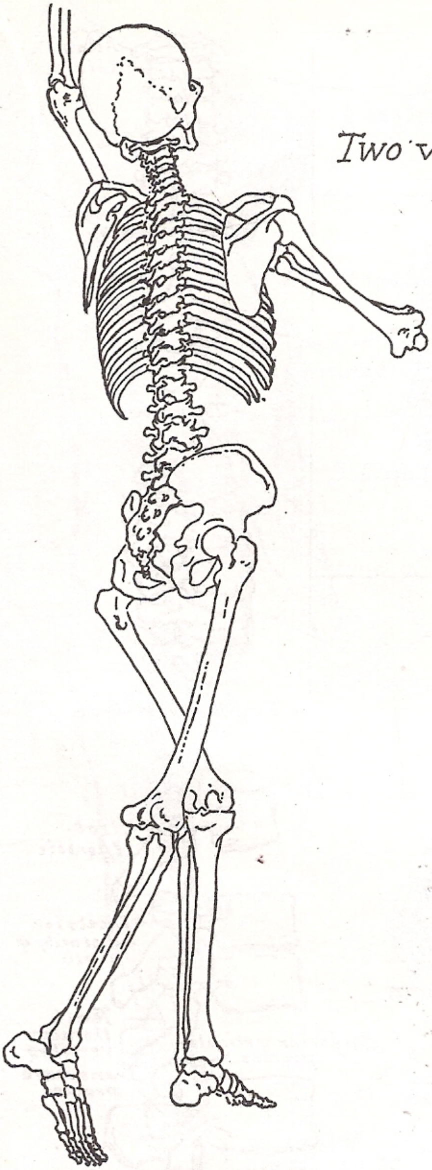


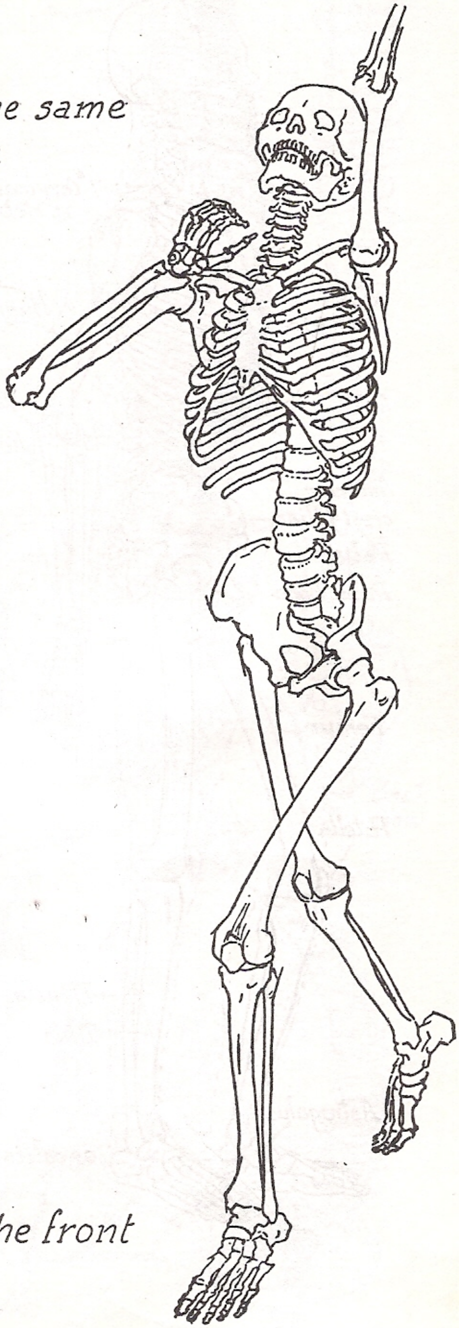
Studies of a girl of five



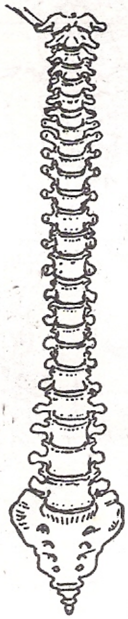
Curve of infant spine

PART II
THE SKELETON

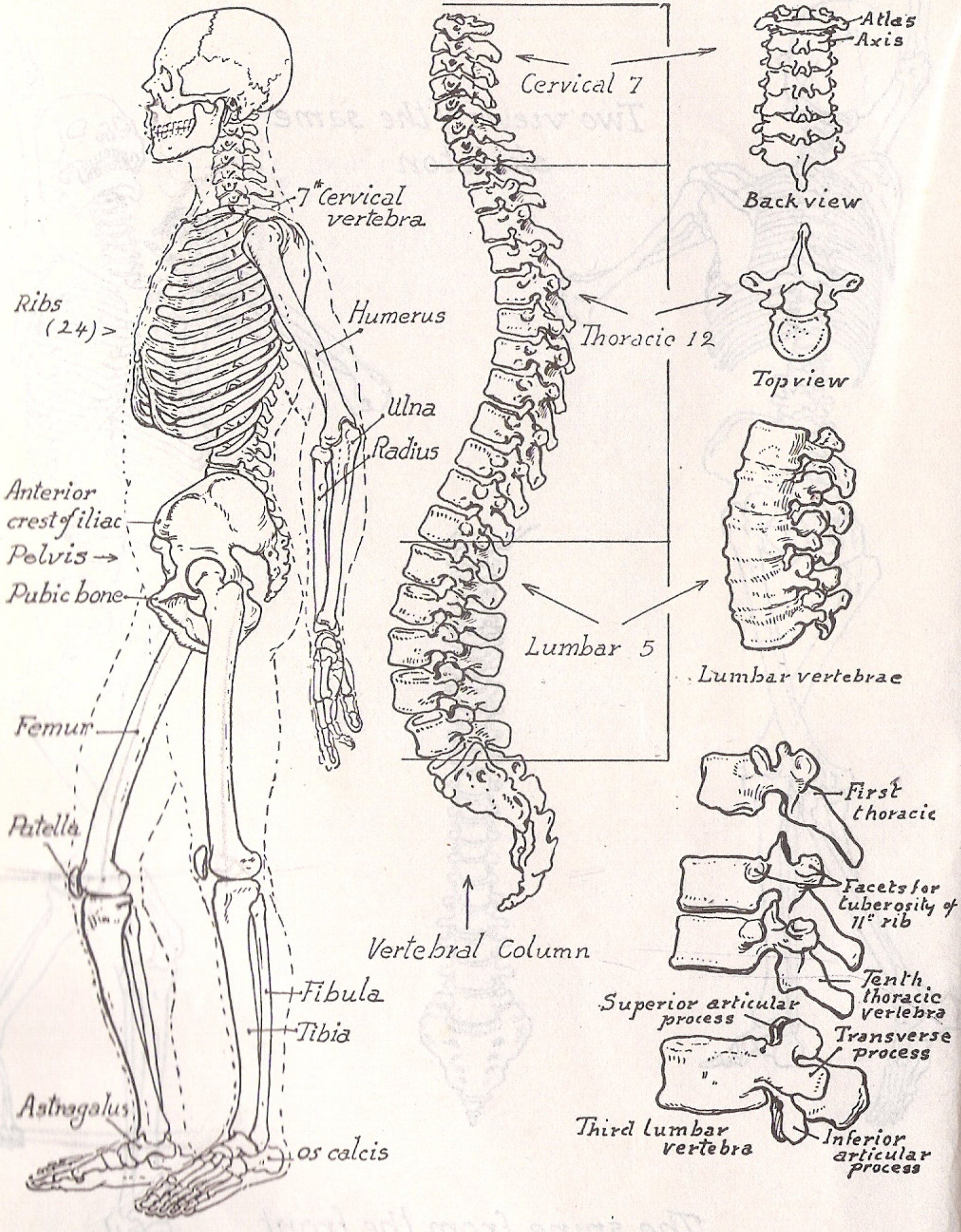


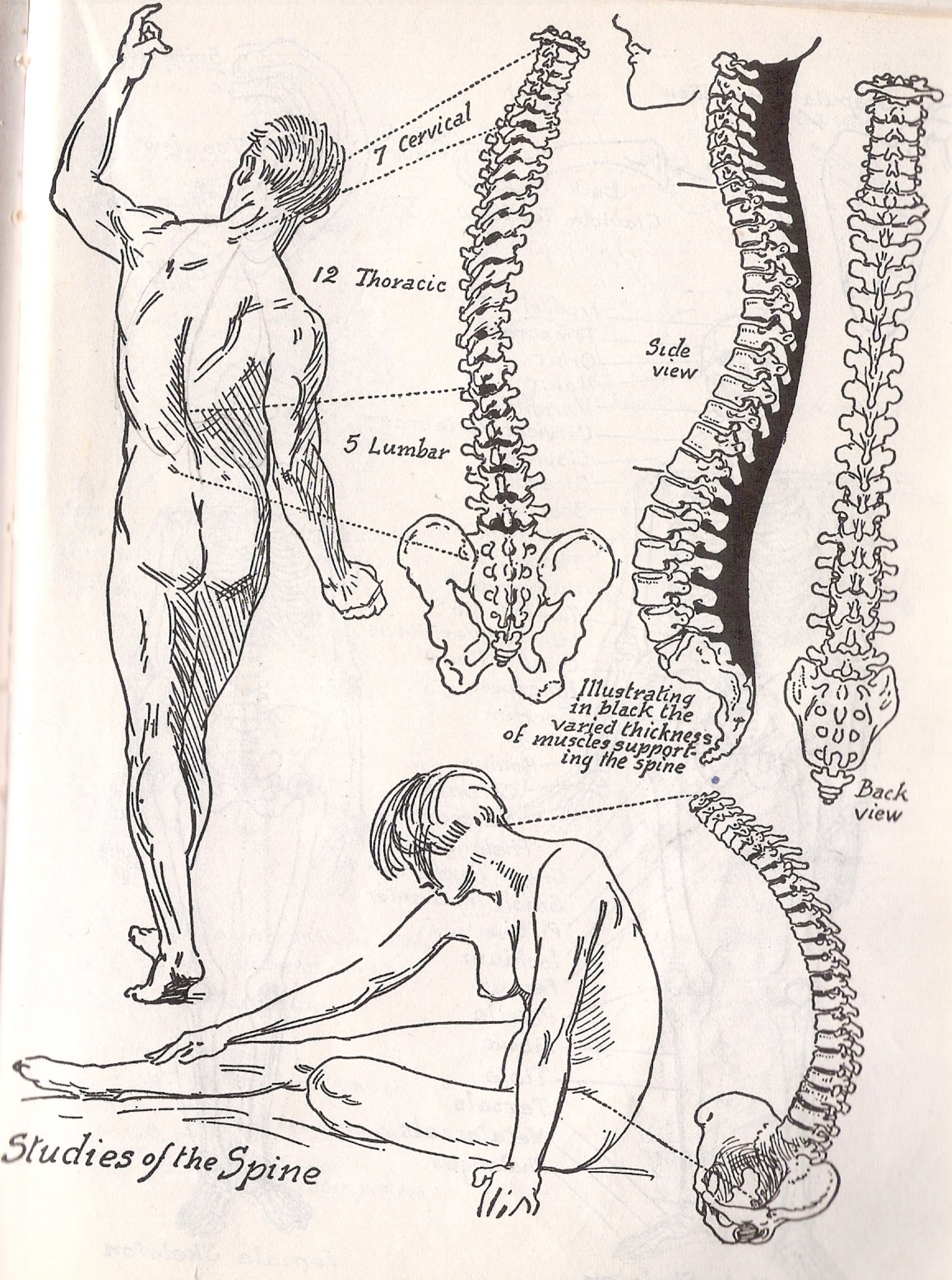


Two views of the same skeleton



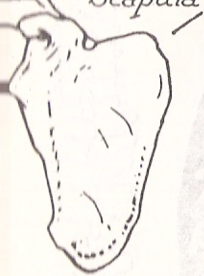
The spine from the front

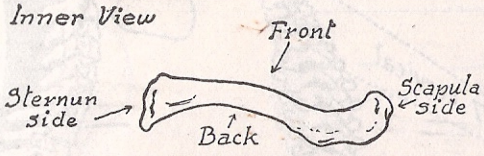

Ribs (24)>
7th Cervical vertebra
Humerus
Ulna
Radius
Anterior crest of iliac
Pelvis →
Pubic bone
Femur
Patella
Fibula
Tibia
Astragalus
os calcis
Cervical 7
Thoracic 12
Lumbar 5
Vertebral Column
Atlas
Axis
Back view
Top view
Lumbar vertebrae
First thoracic
Facets for tuberosity of 11th rib
Tenth thoracic vertebra
Superior articular process
Transverse process
Third lumbar vertebra
Inferior articular process


7 Cervical
12 Thoracic
5 Lumbar
Side view
Illustrating in black the varied thickness of muscles supporting the spine
Back view

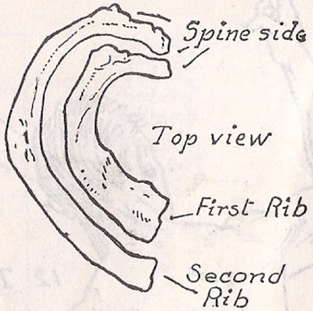
Studies of the Spine

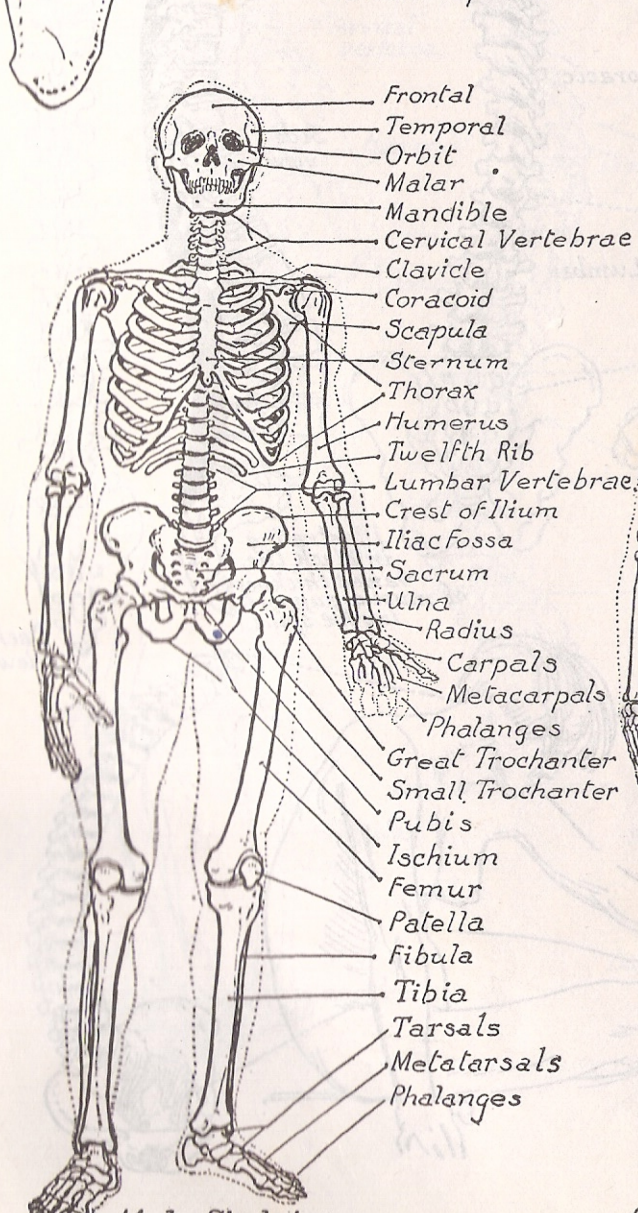
Scapula Inner View



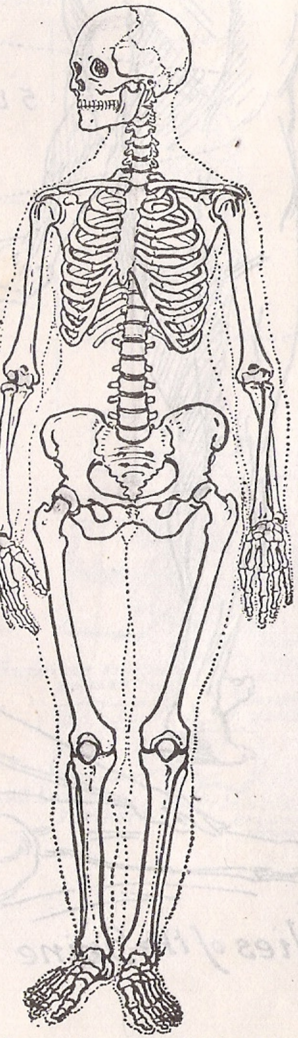

Front
Sternun side
Scapula side
Back

Clavicle Top View

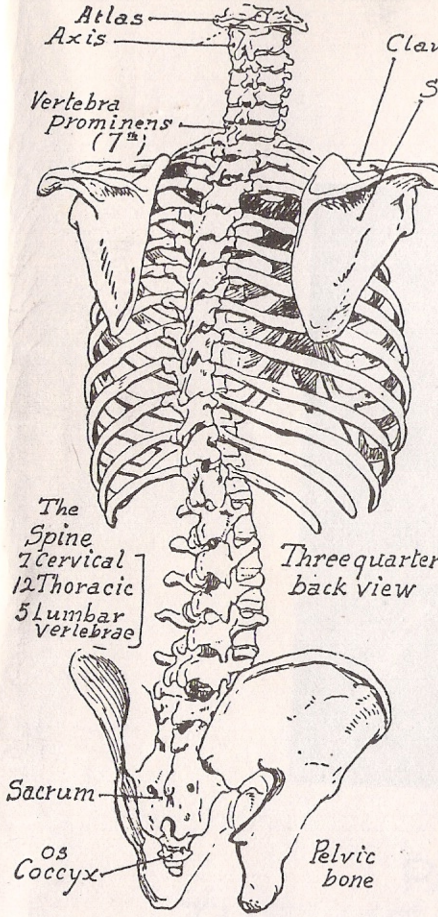

Spine side
Top view
First Rib
Second Rib

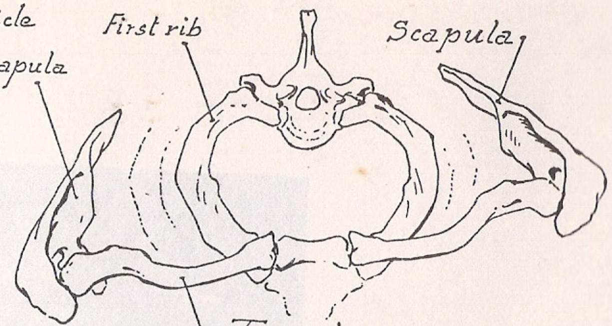

Frontal
Temporal
Orbit
Malar
Mandible
Cervical Vertebrae
Clavicle
Coracoid
Scapula
Sternum
Thorax
Humerus
Twelfth Rib
Lumbar Vertebrae
Crest of Ilium
Iliac Fossa
Sacrum
Ulna
Radius
Carpals
Metacarpals
Phalanges
Great Trochanter
Small Trochanter
Pubis
Ischium
Femur
Patella
Fibula
Tibia
Tarsals
Metatarsals
Phalanges

Male Skeleton

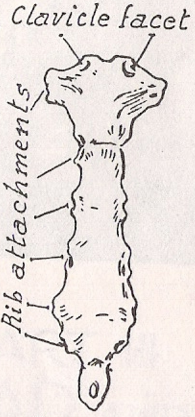


Female Skeleton

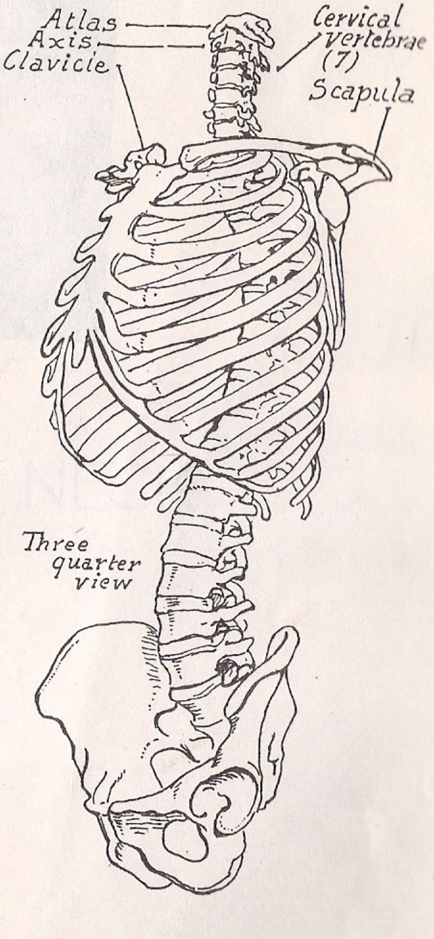

Atlas
Axis
Clavicle
Scapula
Vertebra Prominens (7th)
The Spine
7 Cervical
12 Thoracic
5 Lumbar Vertebrae
Three quarter back view
Sacrum
os Coccyx
Pelvic bone

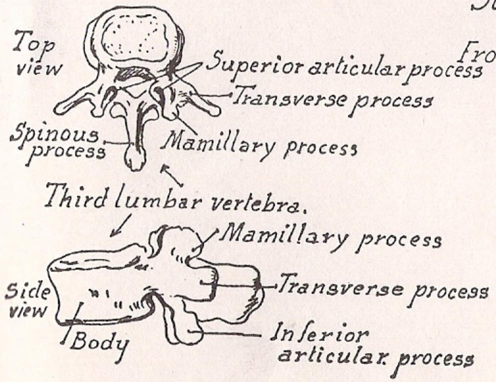

First rib
Scapula
Clavicle

Top view
Action of clavicle, right arm forward


Clavicle facet
Rib attachments

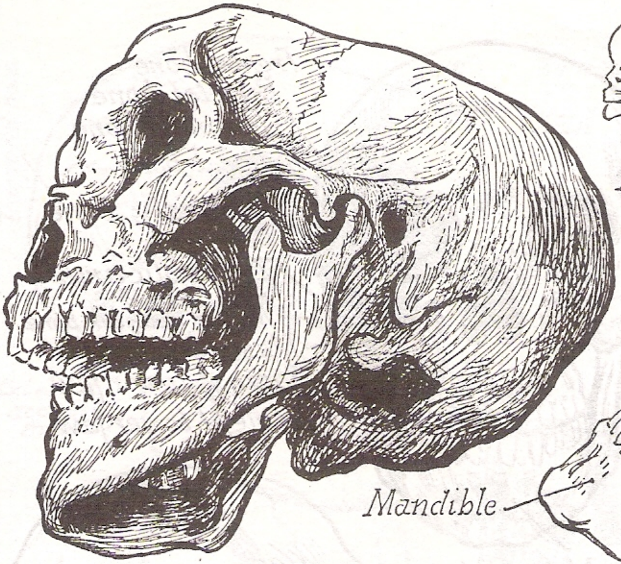
Sternum bone
Front view


Atlas
Axis
Clavicle
Cervical Vertebrae (7)
Scapula
Three quarter view


Top view
Superior articular process
Transverse process
Spinous process
Mamillary process
Mamillary process
Transverse process
Side view
Body
Inferior articular process

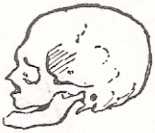
Third lumbar vertebra.

PART III
THE HEAD AND NECK

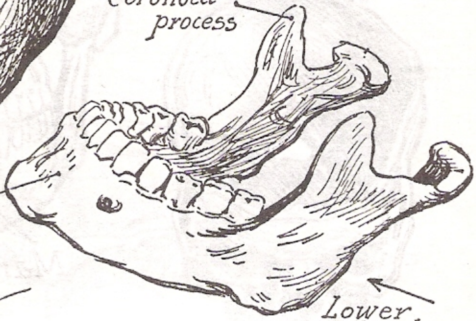


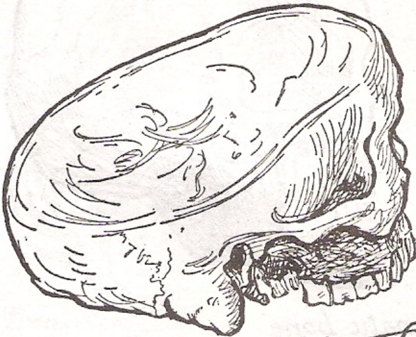
Infant

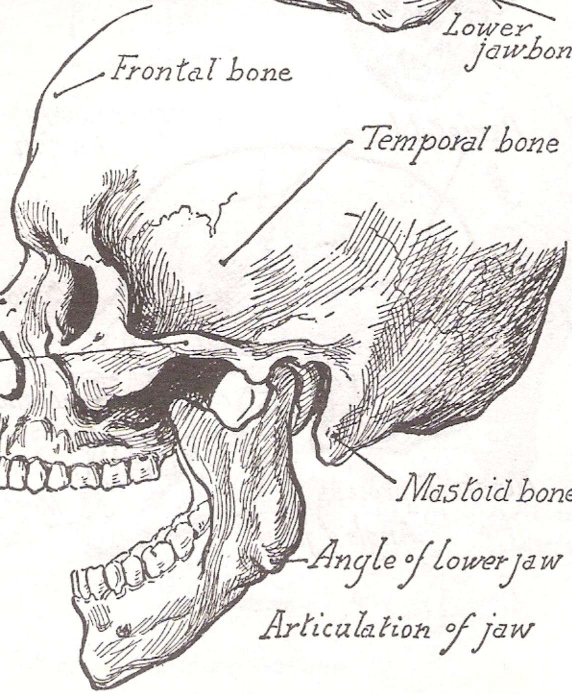
Adult



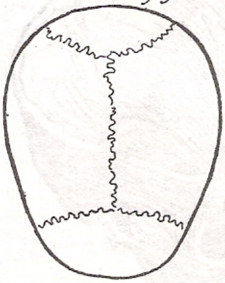
Old age


Coronoid process
Mandible
Lower jawbone



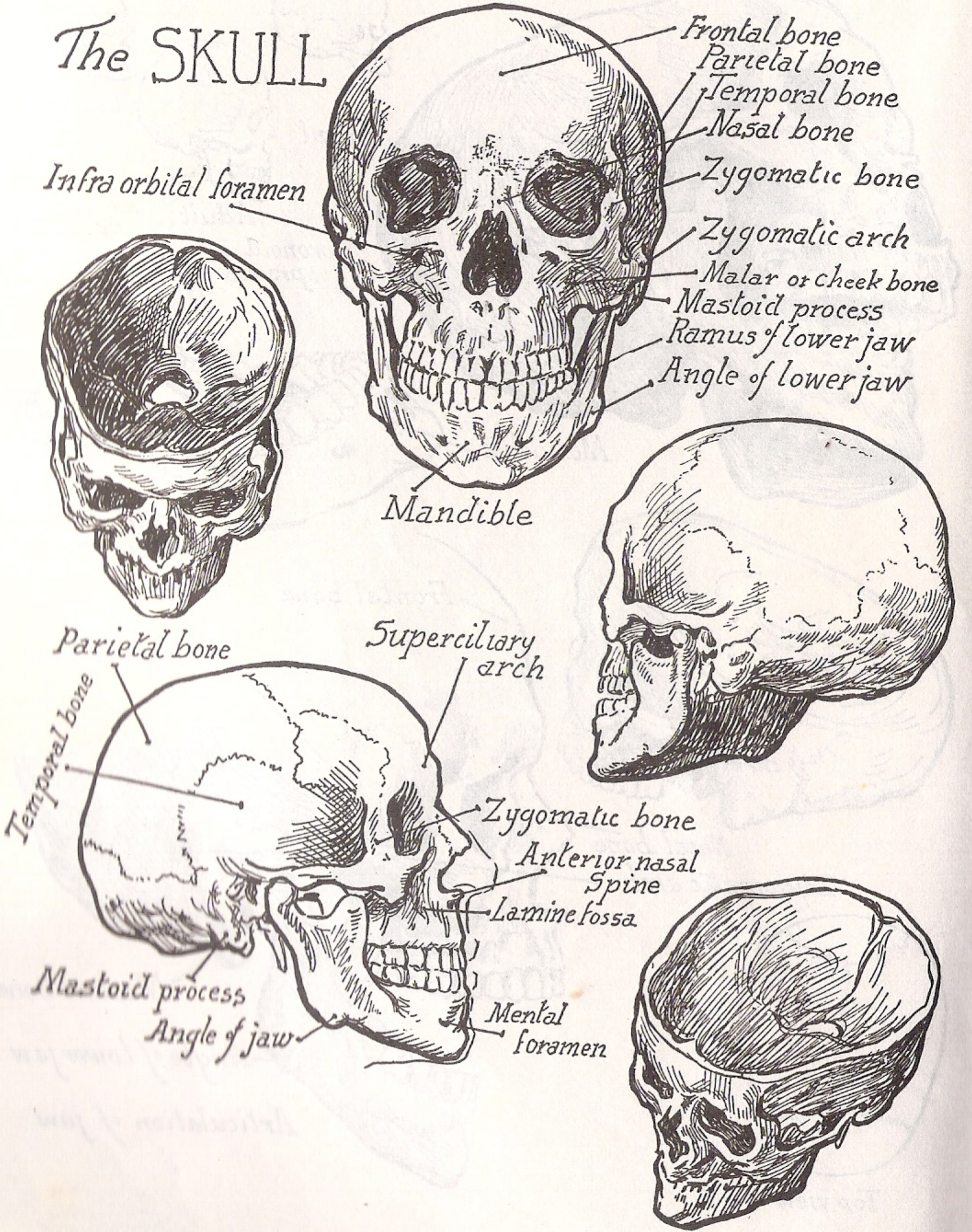

Frontal bone
Temporal bone
Nasal bone
Zygomatic arch
Mastoid bone
Angle of lower jaw

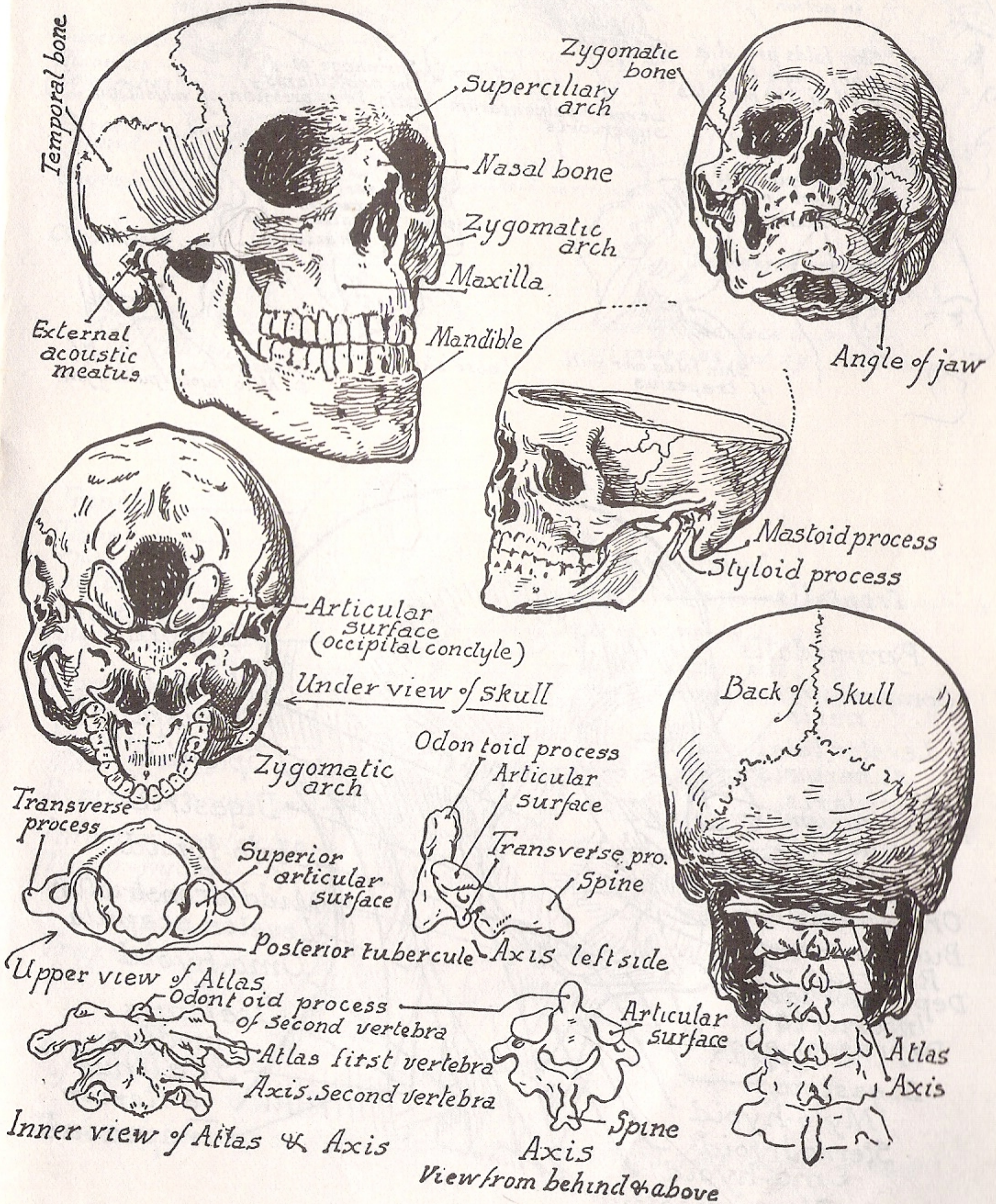
Articulation of jaw

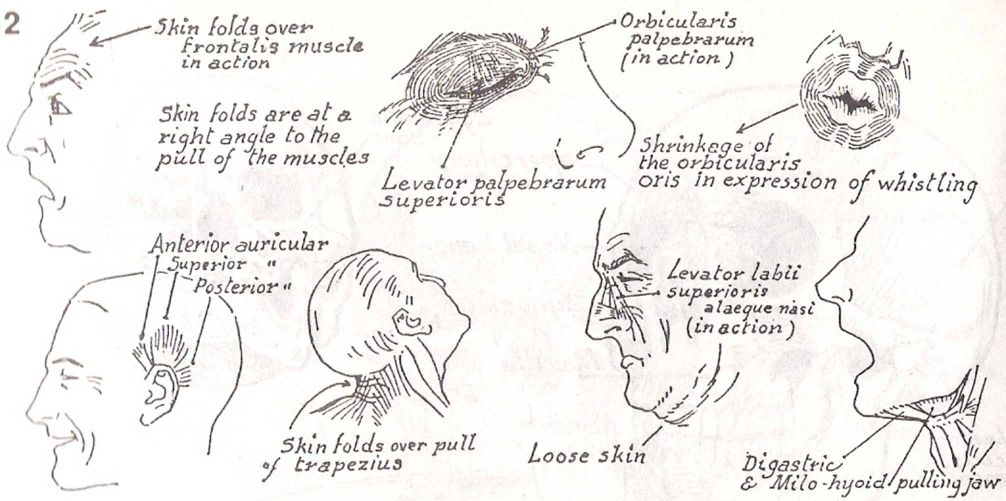


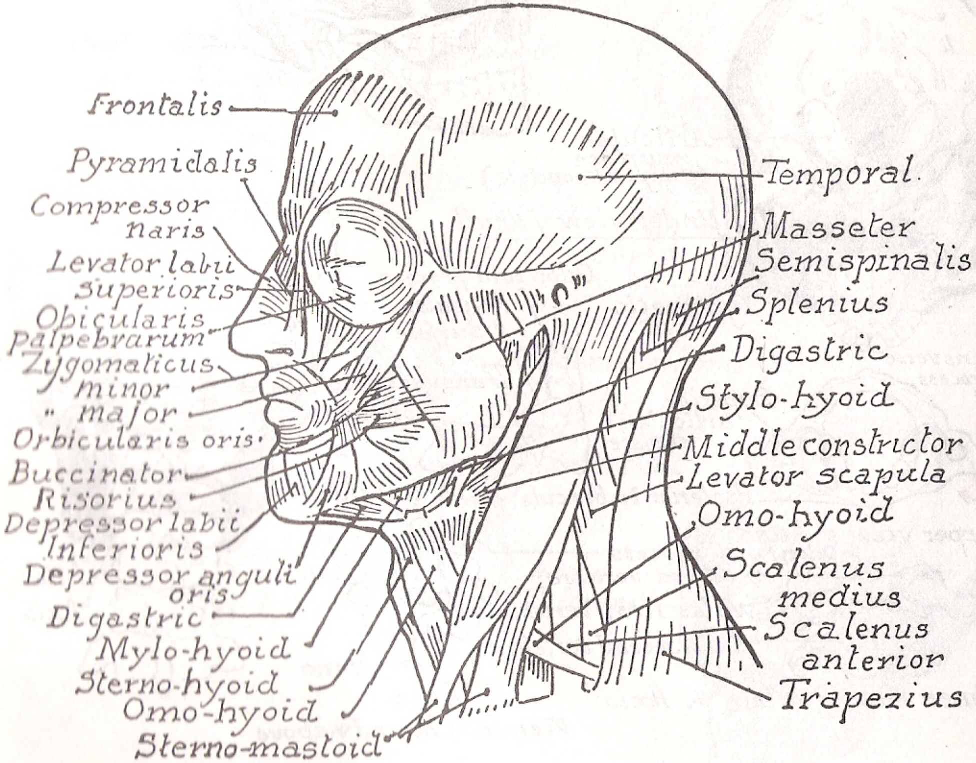
Top view

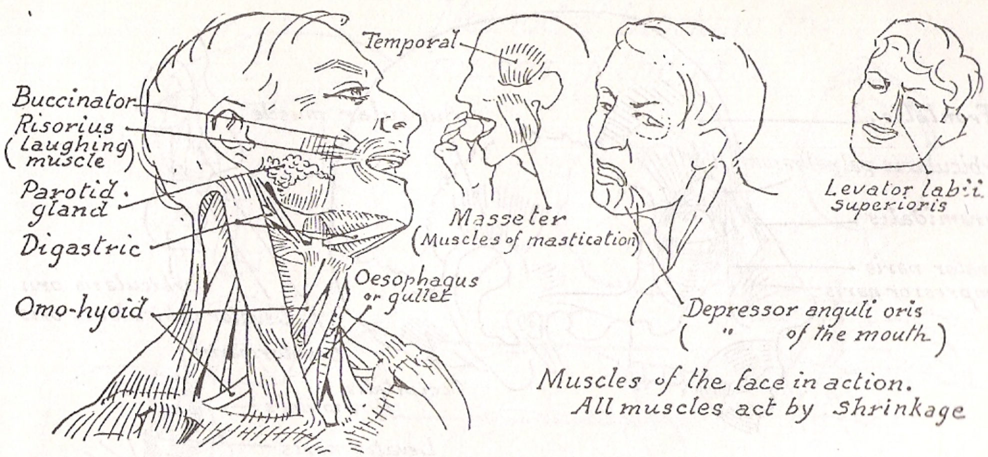
The SKULL


Frontal bone
Parietal bone
Temporal bone
Nasal bone
Zygomatic bone
Infra orbital foramen
Zygomatic arch
Malar or cheek bone
Mastoid process
Ramus of lower jaw
Angle of lower jaw
Mandible
Parietal bone
Superciliary arch
Temporal bone
Zygomatic bone
Anterior nasal Spine
Lamine fossa
Mastoid process
Angle of jaw
Mental foramen

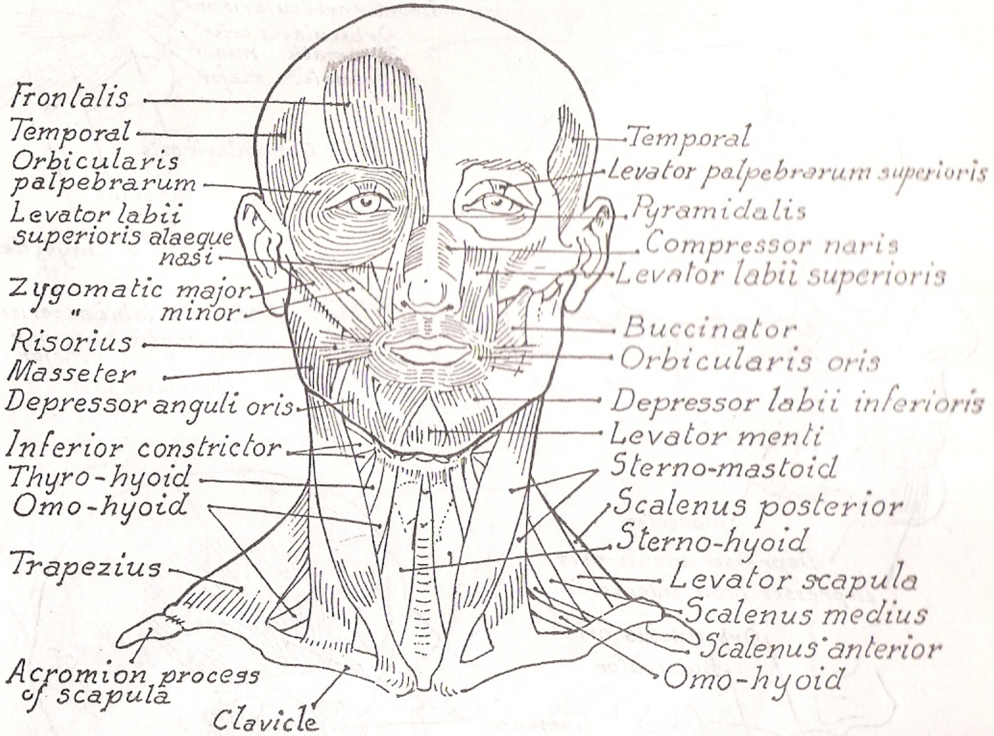

Temporal bone
Superciliary arch
Nasal bone
Zygomatic arch
Maxilla
External acoustic meatus
Mandible
Zygomatic bone
Angle of jaw
Mastoid process
Styloid process
Articular surface (occipital condyle)
Under view of skull
Zygomatic arch
Back of Skull
Odontoid process
Articular surface
Transverse process
Superior articular surface
Transverse pro.
Spine
Posterior tubercule
Axis left side
Upper view of Atlas
Odontoid process of second vertebra
Atlas first vertebra
Axis. Second vertebra
Inner view of Atlas & Axis
Articular surface
Spine
Axis
View from behind & above
Atlas
Axis


Skin folds over frontalis muscle in action
Skin folds are at a right angle to the pull of the muscles
Orbicularis palpebrarum (in action)
Levator palpebrarum superioris
Shrinkage of the orbicularis oris in expression of whistling
Anterior auricular
Superior "
Posterior "
Skin folds over pull of trapezius
Levator labii superioris alaeque nasi (in action)
Loose skin
Digastric & Milo-hyoid pulling jaw

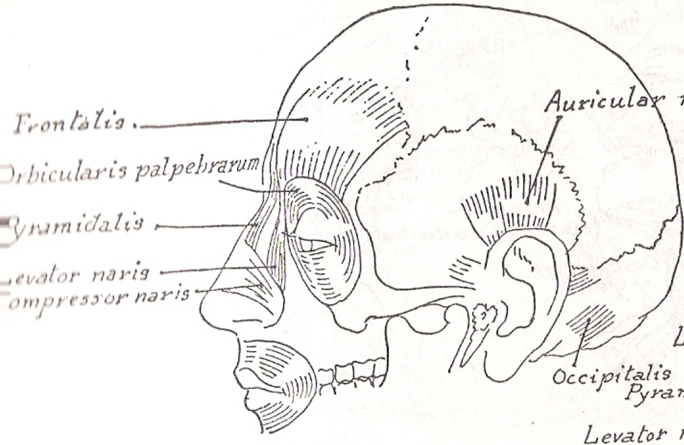

Frontalis
Pyramidalis
Compressor naris
Levator labii superioris
Obicularis Palpebrarum
Zygomaticus minor
" major
Orbicularis oris
Buccinator
Risorius
Depressor labii inferioris
Depressor anguli oris
Digastric
Mylo-hyoid
Sterno-hyoid
Omo-hyoid
Sterno-mastoid
Temporal.
Masseter
Semispinalis
Splenius
Digastric
Stylo-hyoid
Middle constrictor
Levator scapula
Omo-hyoid
Scalenus medius
Scalenus anterior
Trapezius

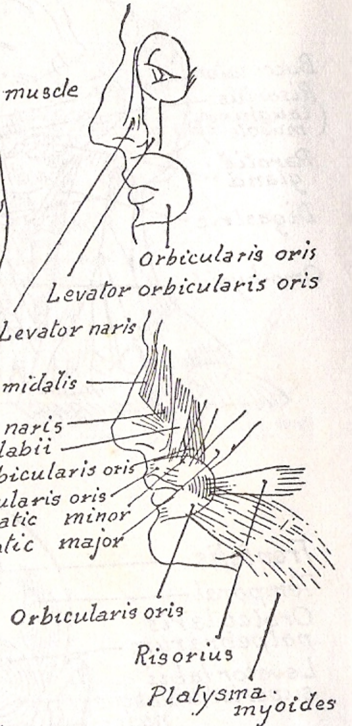

Temporal
Buccinator
Risorius (laughing muscle)
Parotid gland
Digastric
Omo-hyoid
Oesophagus or gullet
Masseter (Muscles of mastication)
Depressor anguli oris
(" of the mouth)
Levator labii superioris

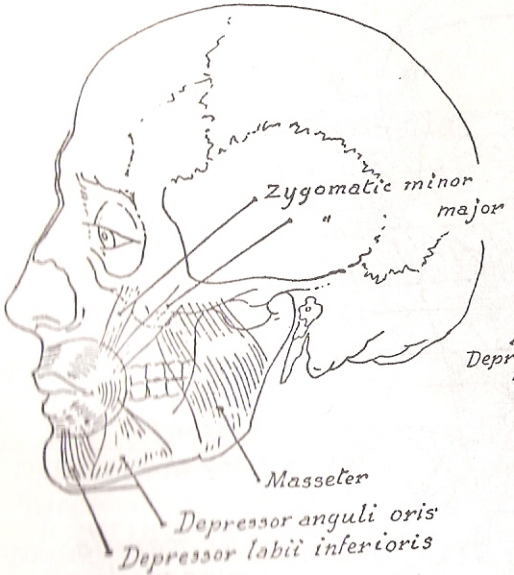
Muscles of the face in action.
All muscles act by shrinkage

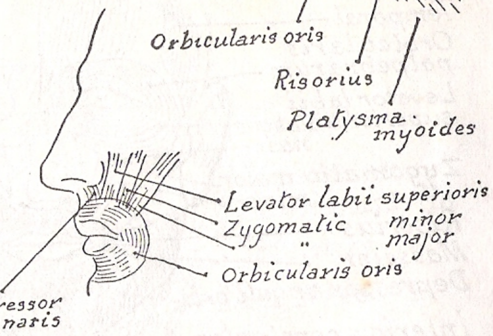

Frontalis
Temporal
Orbicularis palpebrarum
Levator labii superioris alaeque nasi
Zygomatic major
" minor
Risorius
Masseter
Depressor anguli oris
Inferior constrictor
Thyro-hyoid
Omo-hyoid
Trapezius
Acromion process of scapula
Clavicle
Temporal
Levator palpebrarum superioris
Pyramidalis
Compressor naris
Levator labii superioris
Buccinator
Orbicularis oris
Depressor labii inferioris
Levator menti
Sterno-mastoid
Scalenus posterior
Sterno-hyoid
Levator scapula
Scalenus medius
Scalenus anterior
Omo-hyoid

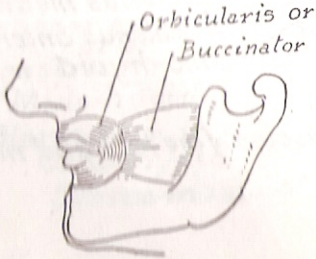
The underlying and the superficial muscles of the face and neck

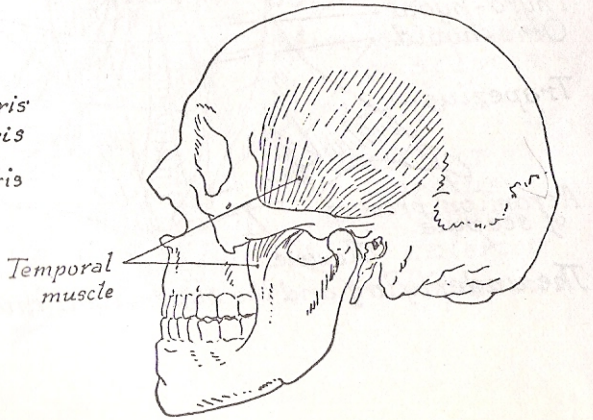

Frontalis
Orbicularis palpebrarum
Pyramidalis
Levator naris
ompressor naris
Auricular muscle
Occipitalis


Orbicularis oris
Levator orbicularis oris
Levator naris
Pyramidalis
Levator naris
Levator labii
Levator orbicularis oris
Orbicularis oris
Zygomatic minor
Zygomatic major
Orbicularis oris
Risorius
Platysma myoides

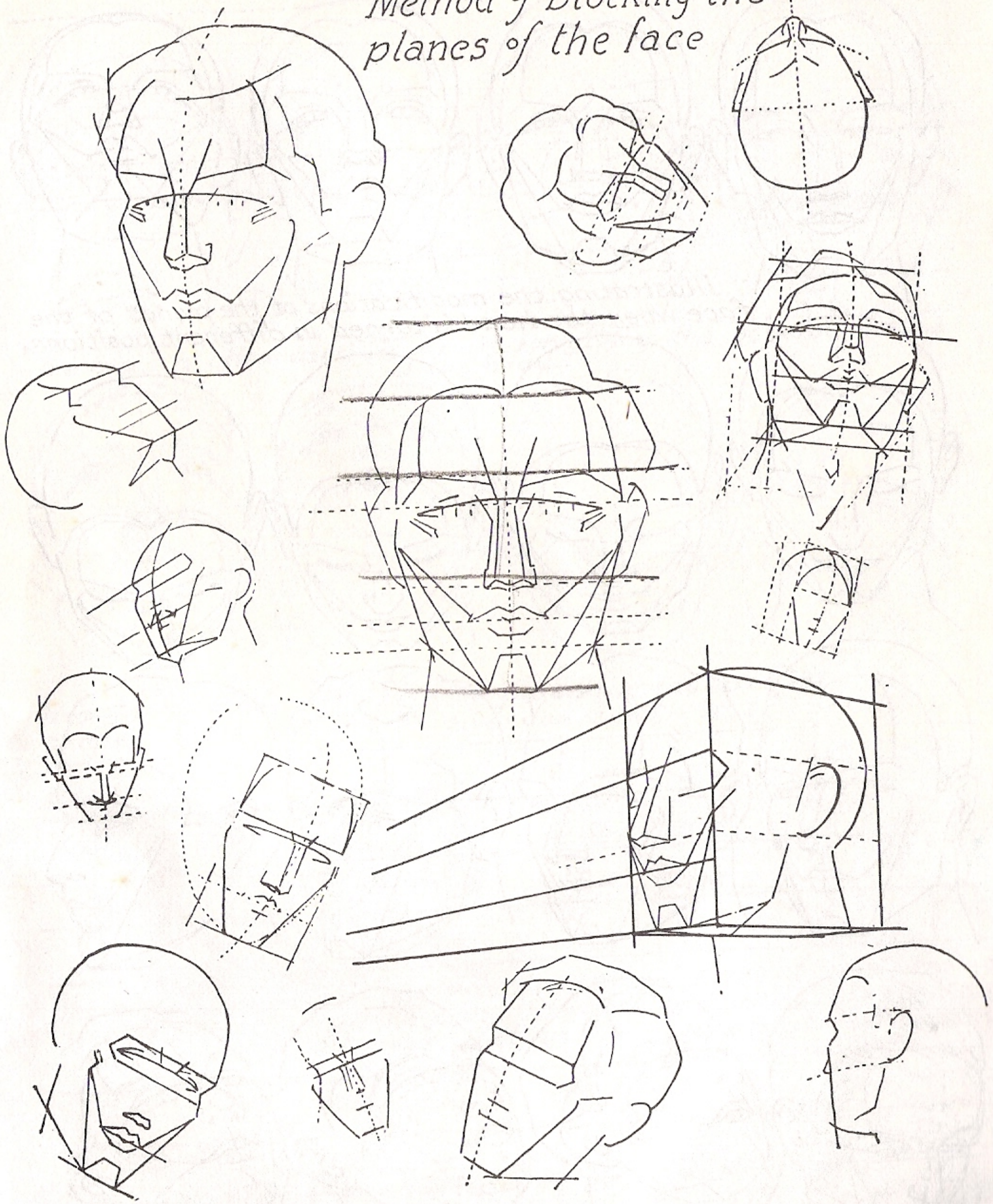

Zygomatic minor
" major
Masseter
Depressor anguli oris
Depressor labii inferioris

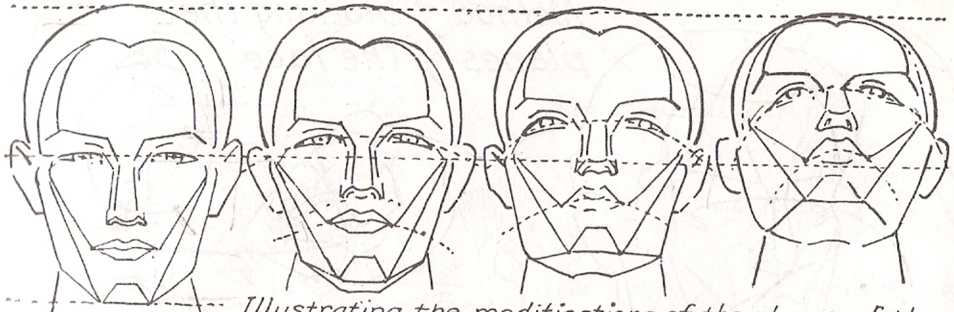

Levator labii superioris
Zygomatic minor
" major
Orbicularis oris
Depressor naris


Orbicularis oris
Buccinator

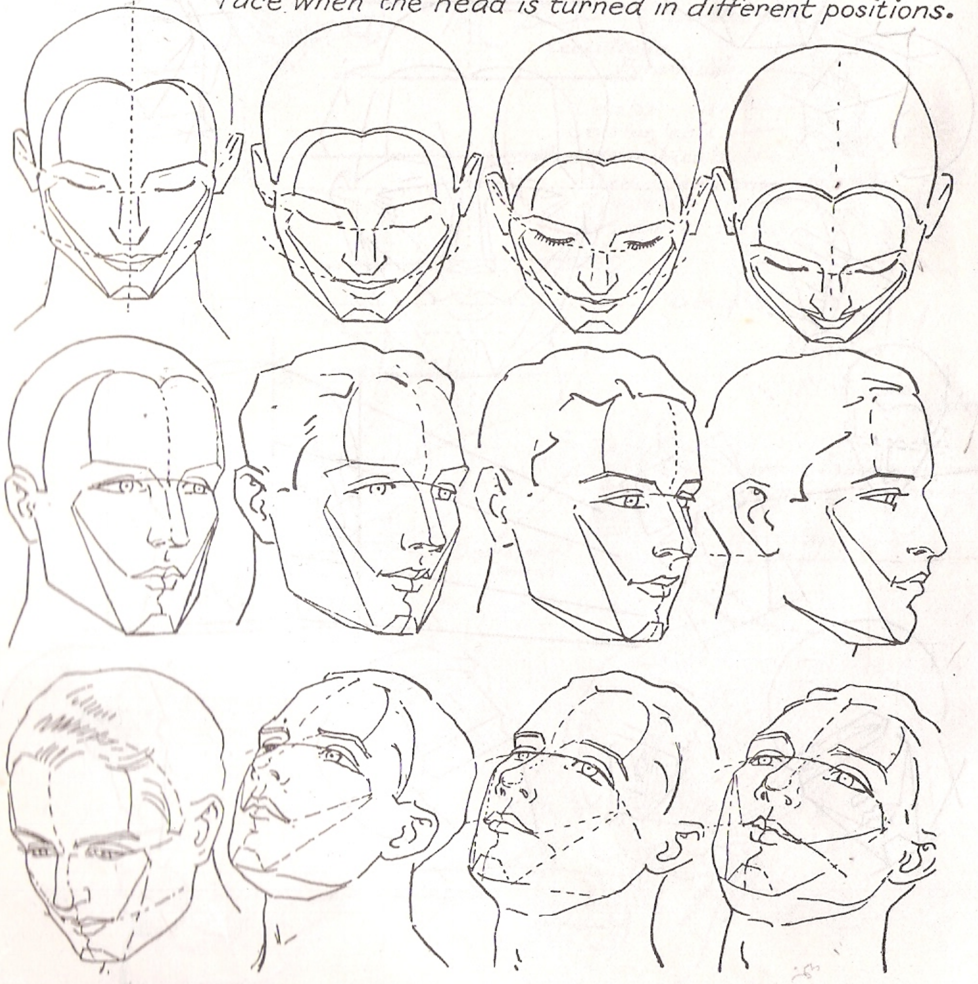

Temporal muscle

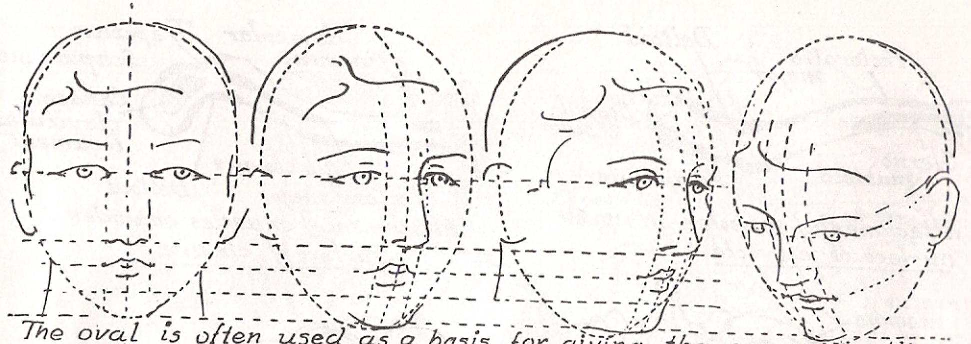
Method of blocking the planes of the face



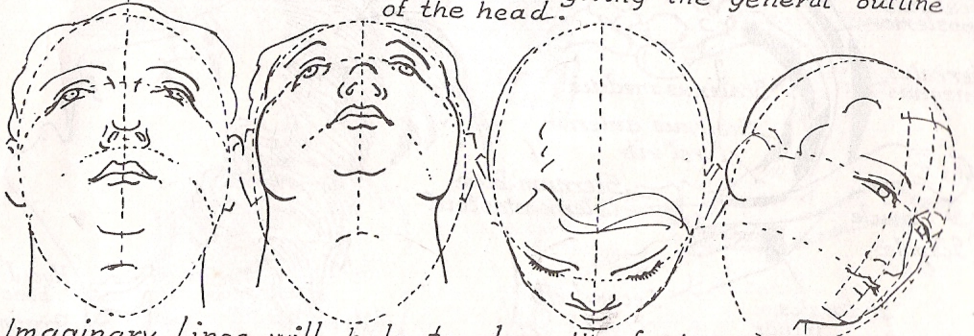


Illustrating the modifications of the planes of the face when the head is turned in different positions.

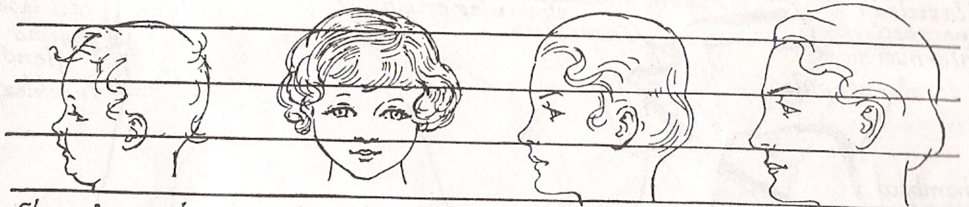




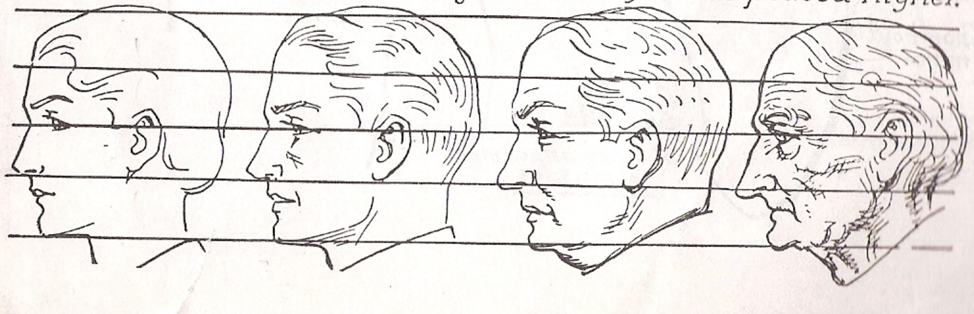
The oval is often used as a basis for giving the general outline of the head.

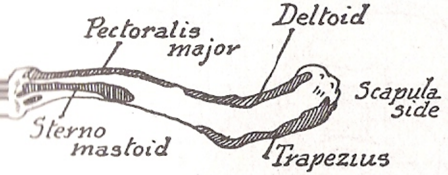


Imaginary lines will help to place the features in their proper relation and to give convexity to the head.

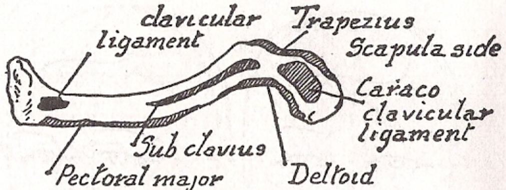


Showing changes in the relative proportions of features and skull at different ages. The nose gradually straightens, then lengthens, the ears lengthen, the eyes are placed higher.

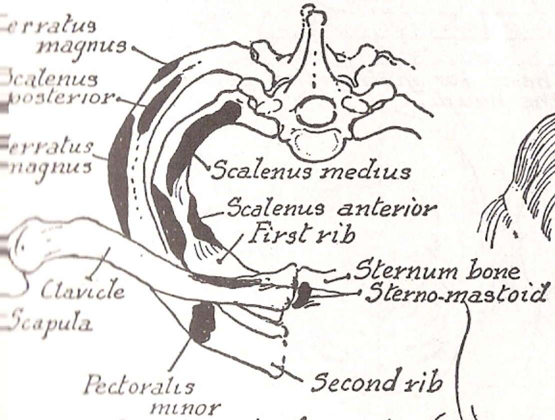



Pectoralis major
Deltoid
Scapula side
Sterno mastoid
Trapezius

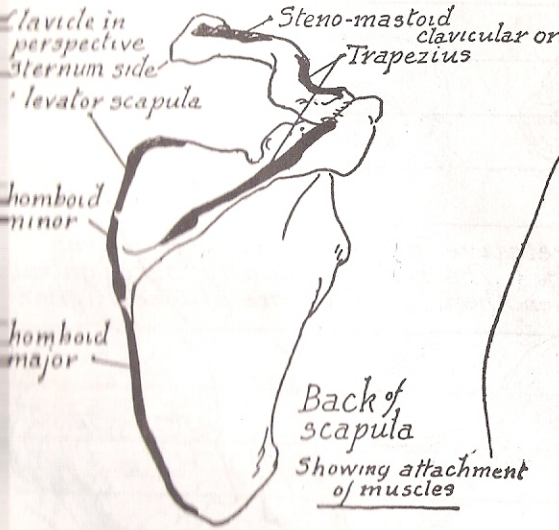
Attachment of muscles on upper surface of clavicle


clavicular ligament
Trapezius
Scapula side
Caraco clavicular ligament
Sub clavius
Pectoral major
Deltoid

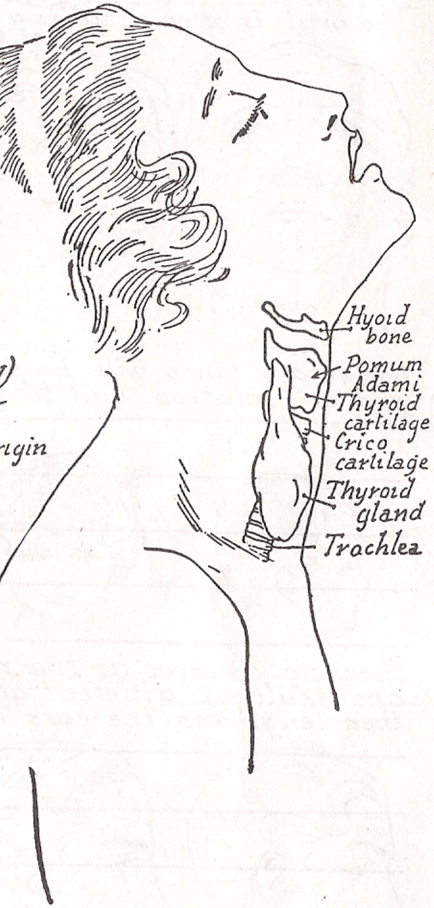
Attachment of muscles on under surface of clavicle

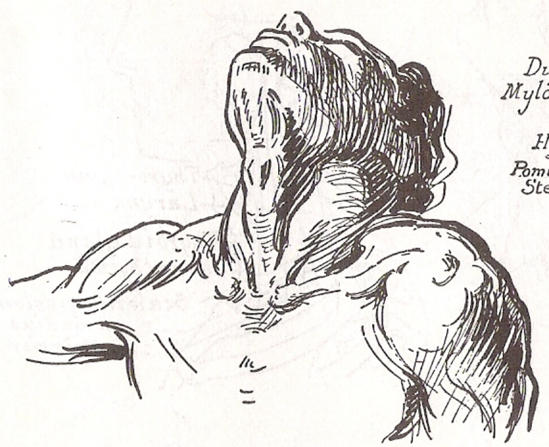

erratus magnus
calenus posterior
erratus nagnus
Scalenus medius
Scalenus anterior
First rib
Clavicle
Scapula
Sternum bone
Sterno-mastoid
Pectoralis minor
Second rib

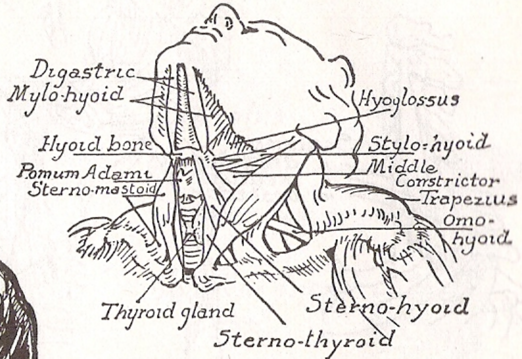
Attachments of muscles (Top view)

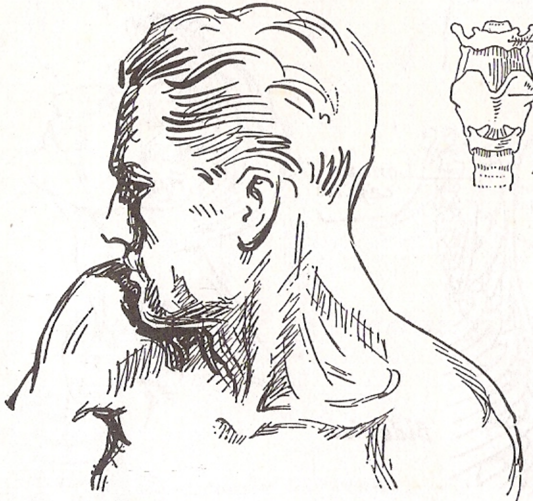

lavicle in perspective
ternum side
levator scapula
Steno-mastoid clavicular origin
Trapezius
homboid minor
homboid major

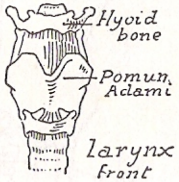
Back of scapula
Showing attachment of muscles


Hyoid bone
Pomum Adami
Thyroid cartilage
Crico cartilage
Thyroid gland
Trachlea

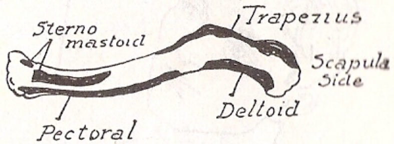



Digastric
Mylo-hyoid
Hyoid bone
Pomum Adami
Sterno-mastoid
Hyoglossus
Stylo-hyoid
Middle Constrictor
Trapezius
Omo-hyoid
Thyroid gland
Sterno-hyoid
Sterno-thyroid

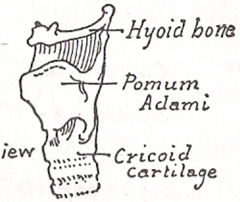



Hyoid bone
Pomum Adami

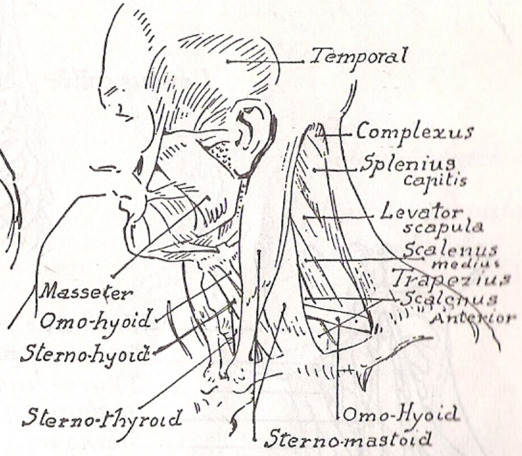
Larynx front

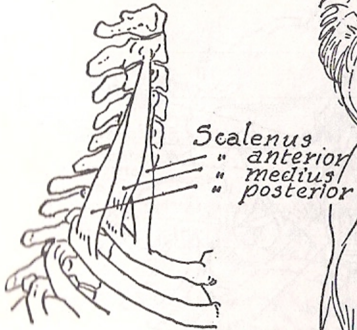

Sterno mastoid
Trapezius
Scapula side
Deltoid
Pectoral major

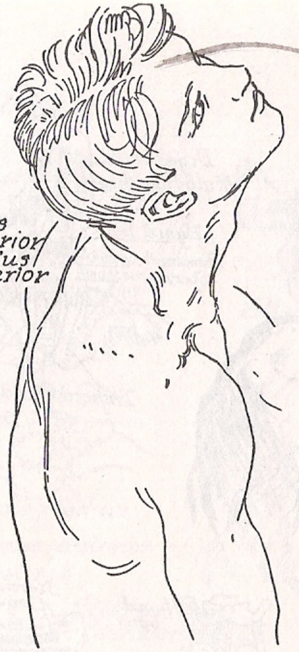
Top view of clavicle showing attachment of muscles

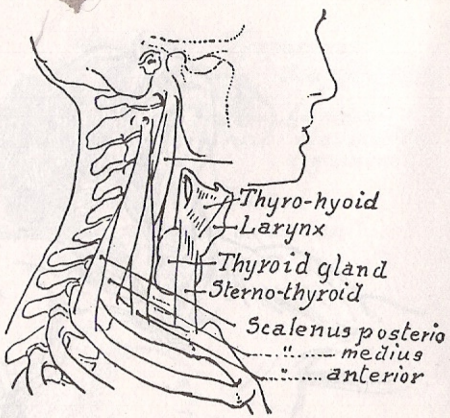

Hyoid bone
Pomum Adami
Cricoid cartilage

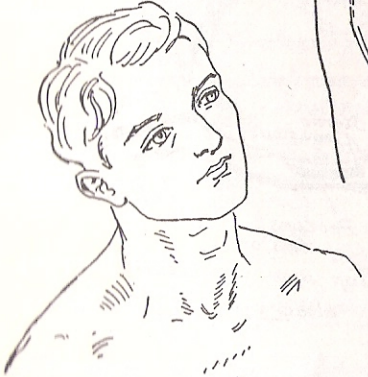
Larynx side view

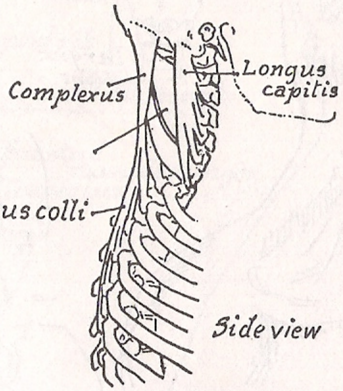

Temporal
Complexus
Splenius capitis
Levator scapula
Scalenus medius
Trapezius
Scalenus Anterior
Masseter
Omo-hyoid
Sterno-hyoid
Sterno-thyroid
Omo-Hyoid
Sterno-mastoid


Scalenus
" anterior
" medius
" posterior

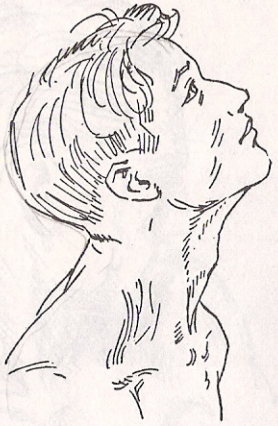


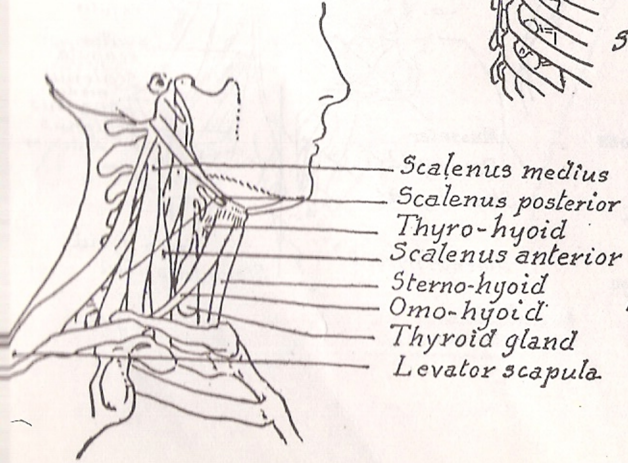

Thyro-hyoid
Larynx
Thyroid gland
Sterno-thyroid
Scalenus posterio
" medius
" anterior

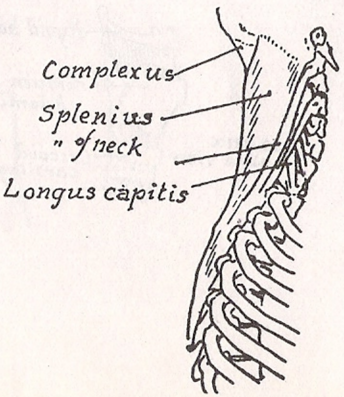



Complexus
Longus capitis
Longus colli

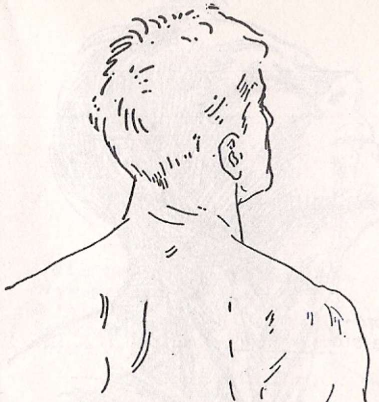
Side view



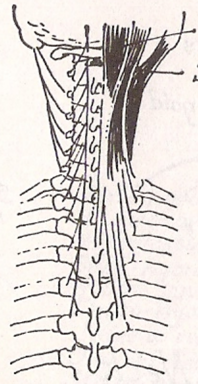

Scalenus medius
Scalenus posterior
Thyro-hyoid
Scalenus anterior
Sterno-hyoid
Omo-hyoid
Thyroid gland
Levator scapula


Complexus
Splenius
" of neck
Longus capitis

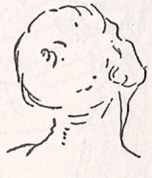
Muscles of back of neck



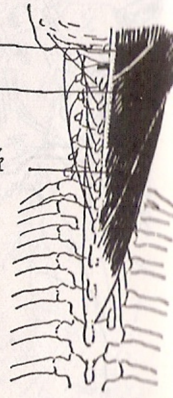
Action of № 1


Complexus
Small splenius

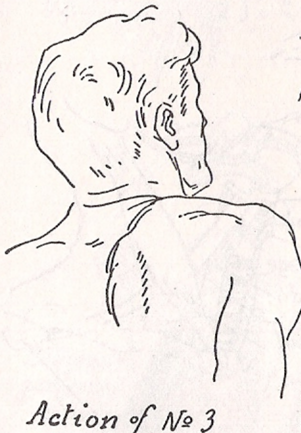
№ 1



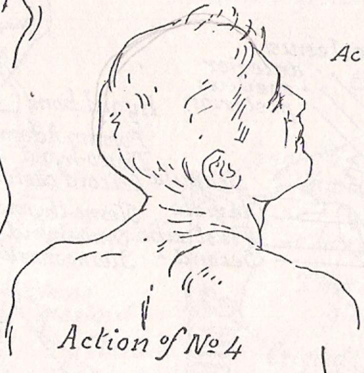
Action of № 2


Complexus
Splenius
Splenius of neck

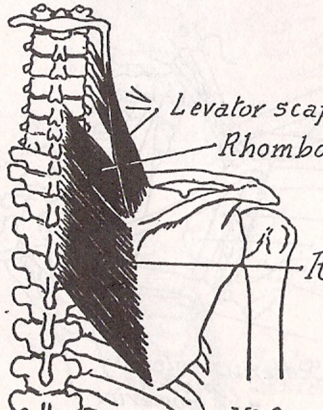
№ 2



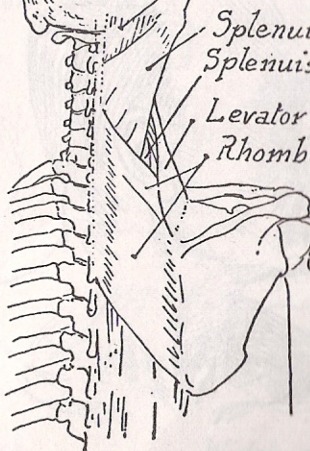
Action of № 3



Action of № 4

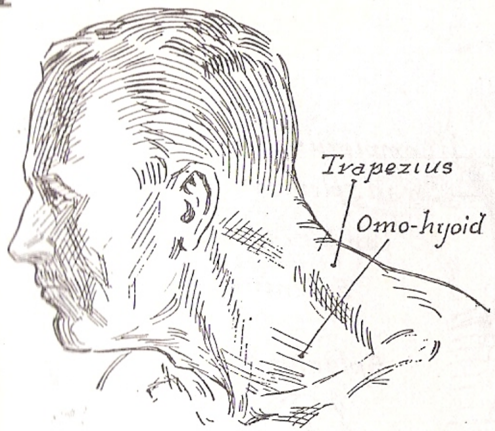

Levator scapula
Rhomboid minor
Rhomboid major

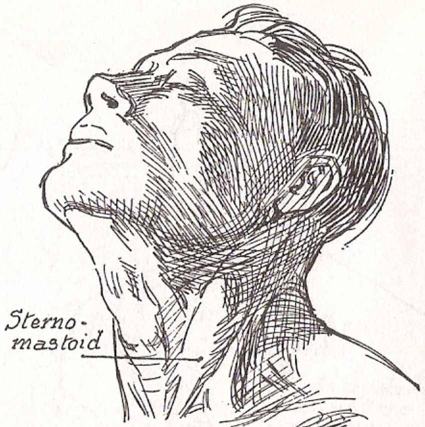
№ 3

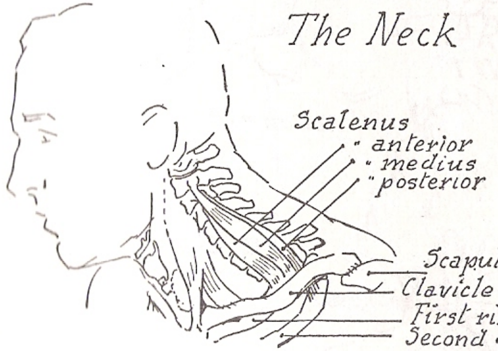

Complexus
Splenuis
Splenuis of neck
Levator scapula
Rhomboids

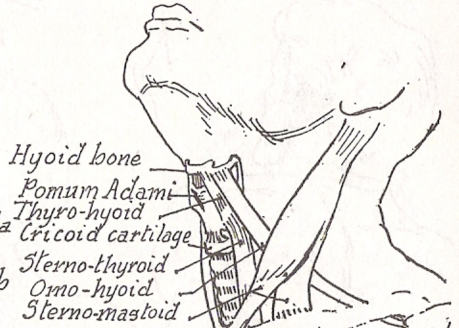
№ 4

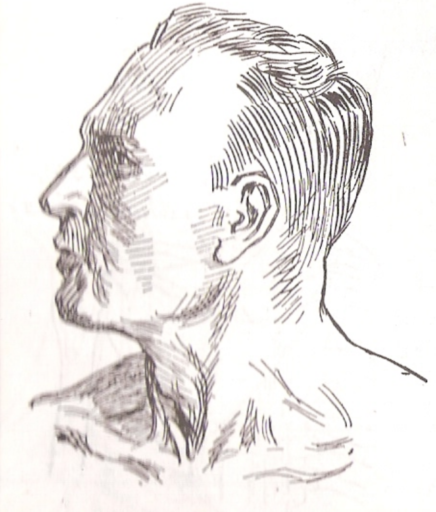
The Neck

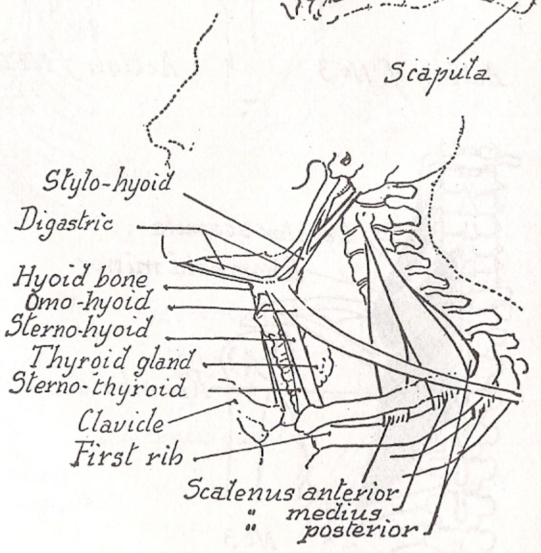

Trapezius
Omo-hyoid

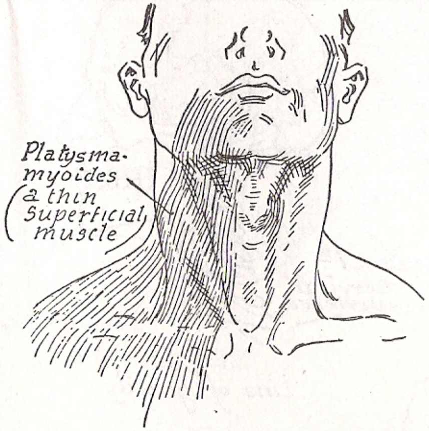

Sterno-mastoid

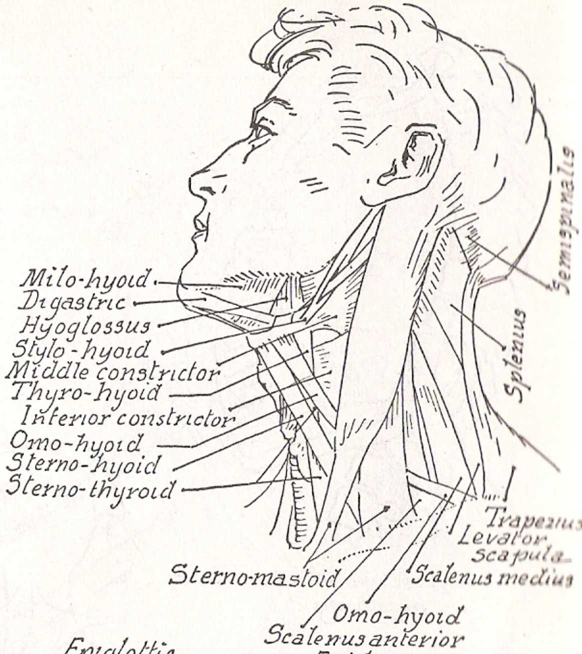

Scalenus
" anterior
" medius
" posterior
Scapula
Clavicle
First rib
Second "

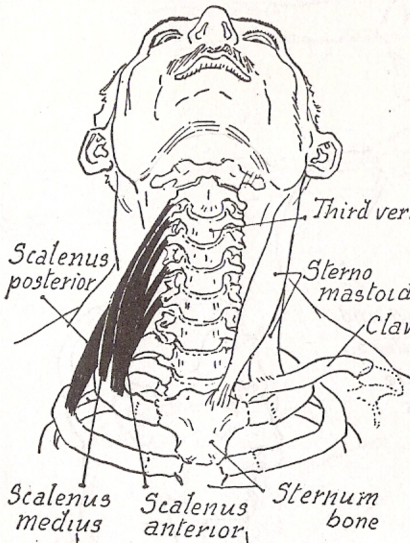

Hyoid bone
Pomum Adami
Thyro-hyoid
Cricoid cartilage
Sterno-thyroid
Omo-hyoid
Sterno-mastoid
Scapula

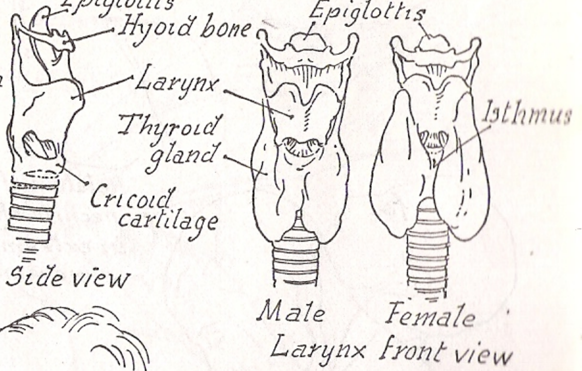


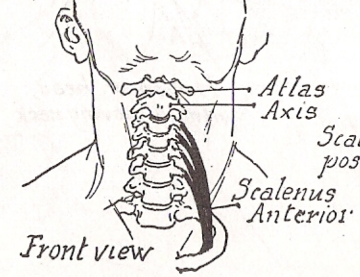

Stylo-hyoid
Digastric
Hyoid bone
Omo-hyoid
Sterno-hyoid
Thyroid gland
Sterno-thyroid
Clavicle
First rib
Scalenus anterior
" medius
" posterior

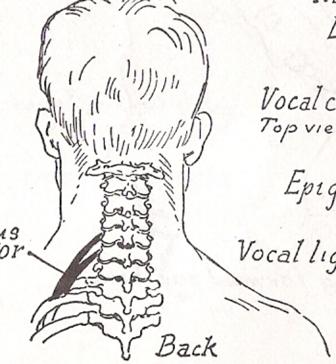

Platysma myoides
a thin superficial muscle

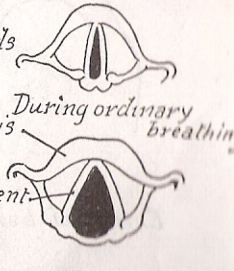

Milo-hyoid
Digastric
Hyoglossus
Stylo-hyoid
Middle constrictor
Thyro-hyoid
Inferior constrictor
Omo-hyoid
Sterno-hyoid
Sterno-thyroid
Semispinalis
Splenius
Trapezius
Levator scapula
Scalenus medius
Sterno-mastoid
Omo-hyoid
Scalenus anterior

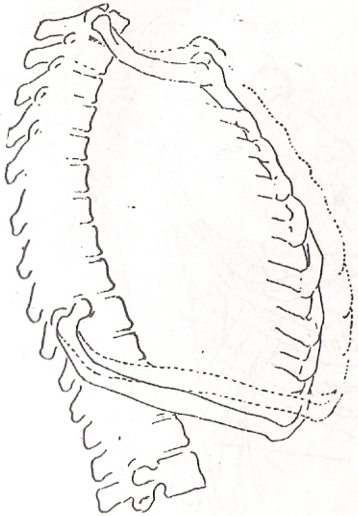

Third vertebra
Scalenus posterior
Sterno mastoid
Clavicle
Scalenus medius
Scalenus anterior
Sternum bone


Epiglottis
Hyoid bone
Larynx
Thyroid gland
Cricoid cartilage
Side view
Epiglottis
Isthmus
Male
Female
Larynx front view

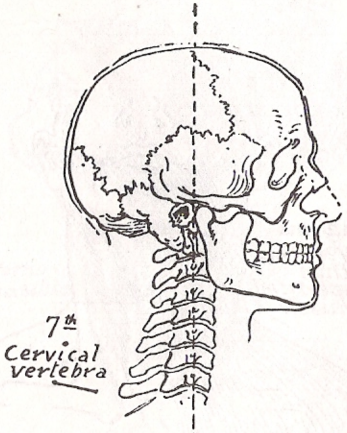

Atlas
Axis
Scalenus Anterior
Front view


Scalenus posterior
Back

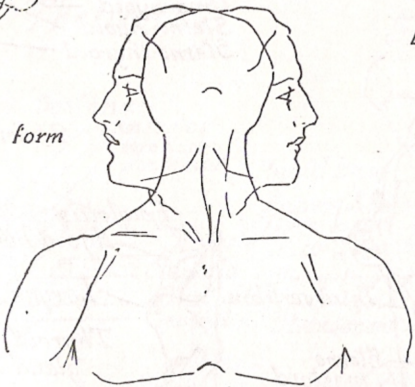

Vocal chords
Top view
During ordinary breathing
Epiglottis
Vocal ligament
Widely opened



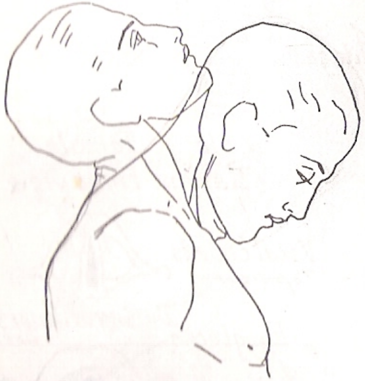
Modification of chest form in breathing


7th Cervical vertebra

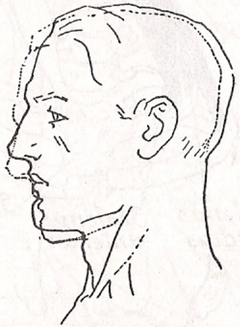
Line of gravity



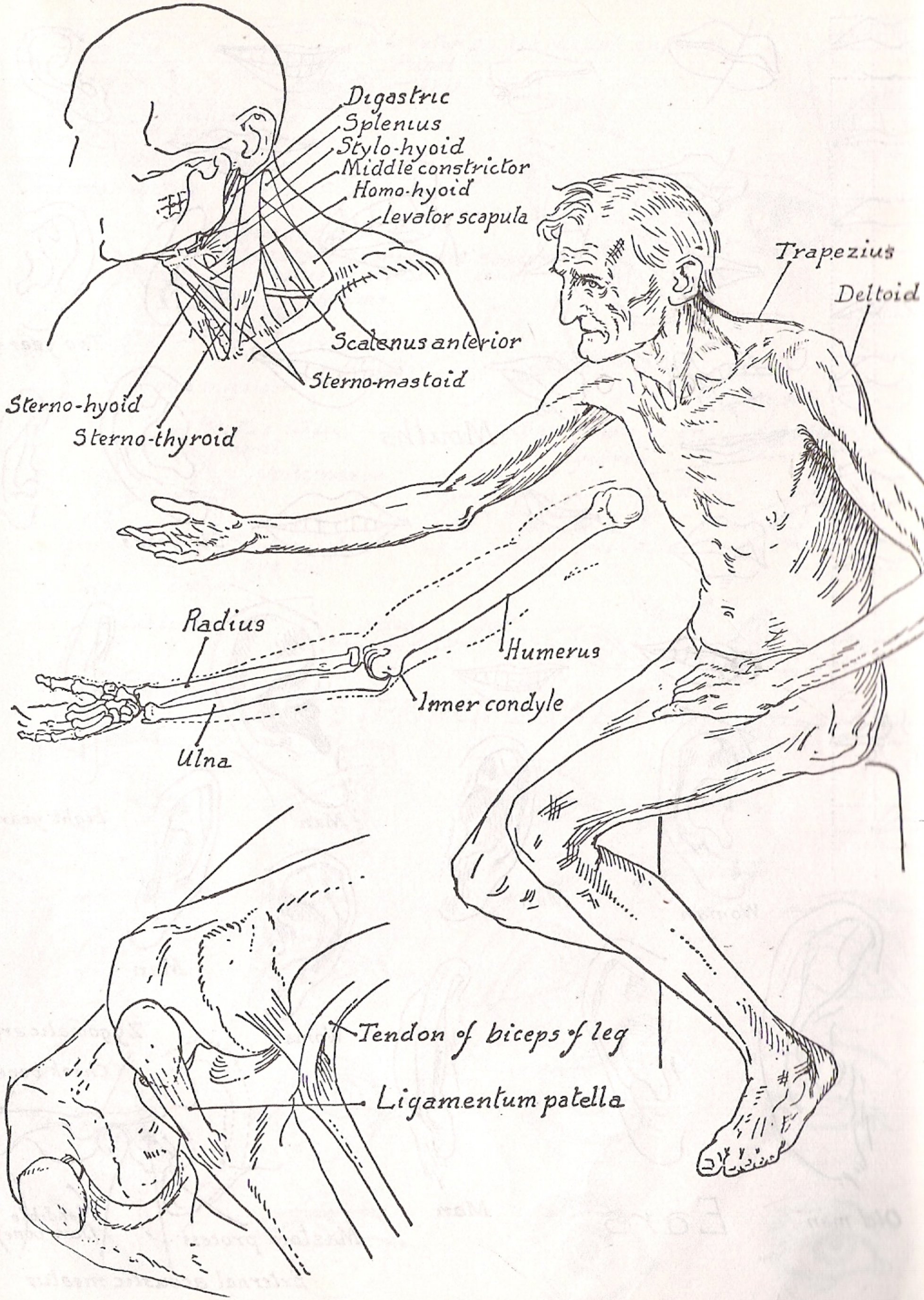
Relation of head and neck to shoulders in extreme side movements

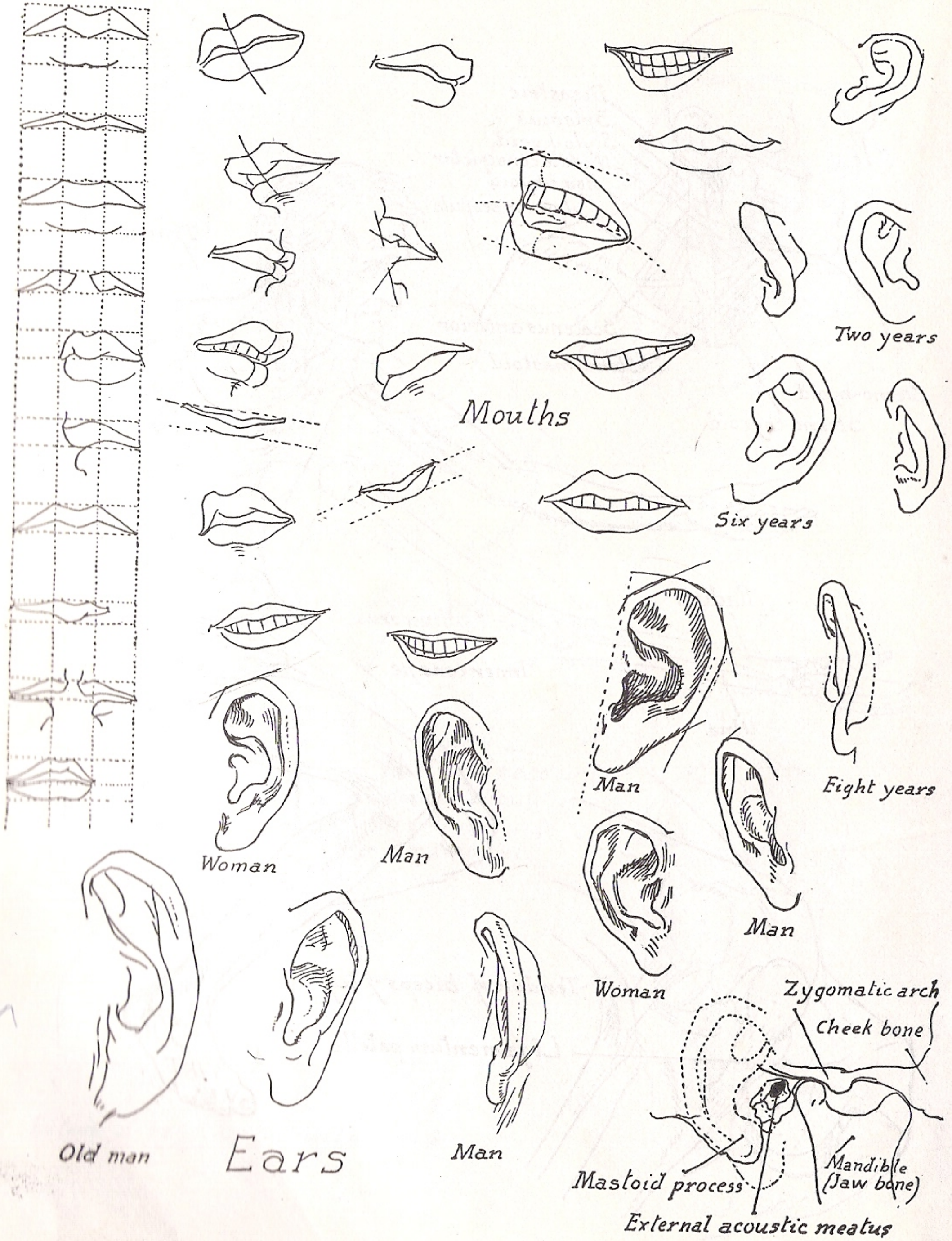


Extent of bending forward and back



Flexion of head without moving neck

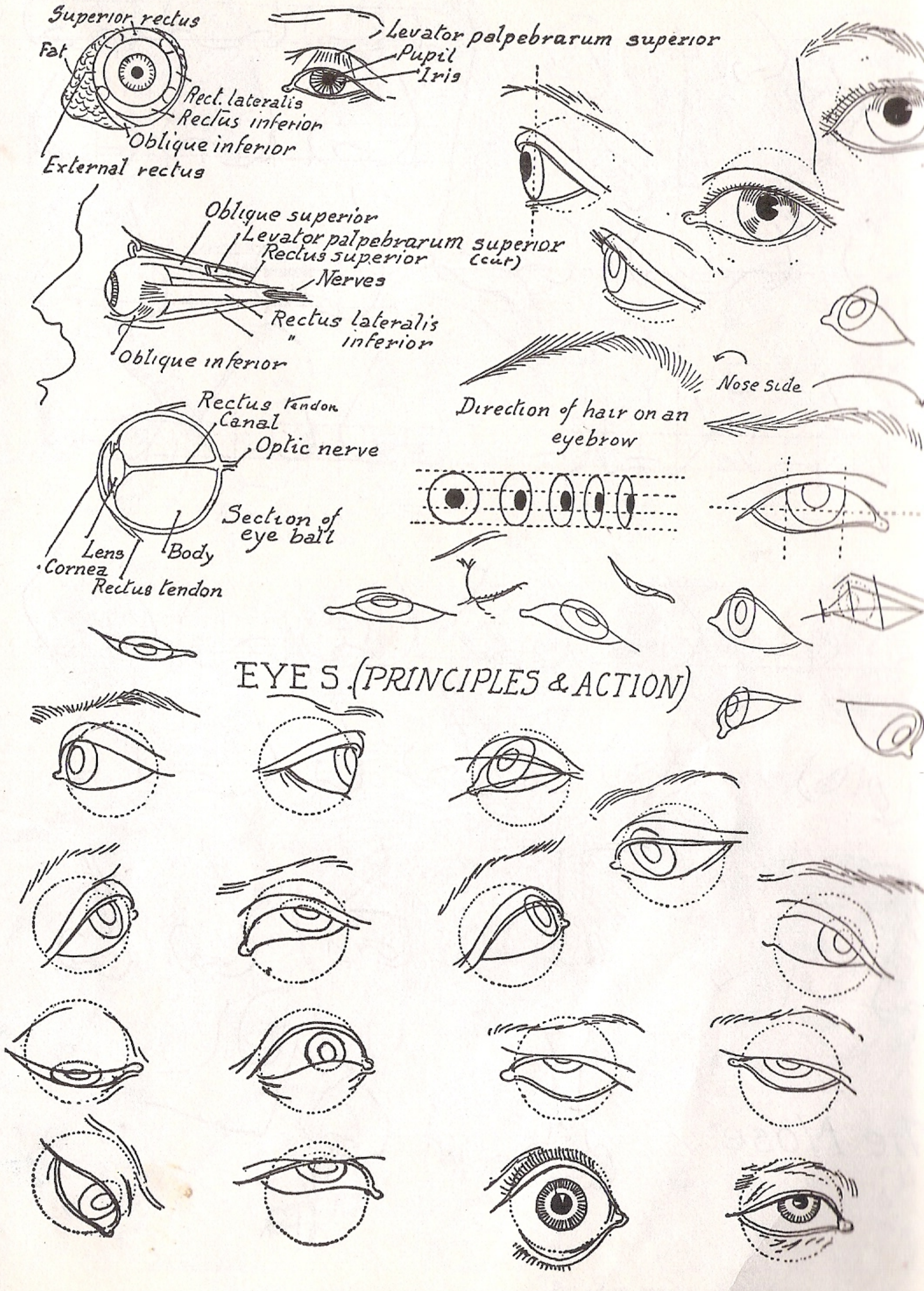

Digastric
Splenius
Stylo-hyoid
Middle constrictor
Homo-hyoid
levator scapula
Scalenus anterior
Sterno-mastoid
Sterno-hyoid
Sterno-thyroid
Trapezius
Deltoid
Radius
Humerus
Inner condyle
Ulna
Tendon of biceps of leg
Ligamentum patella



Mouths

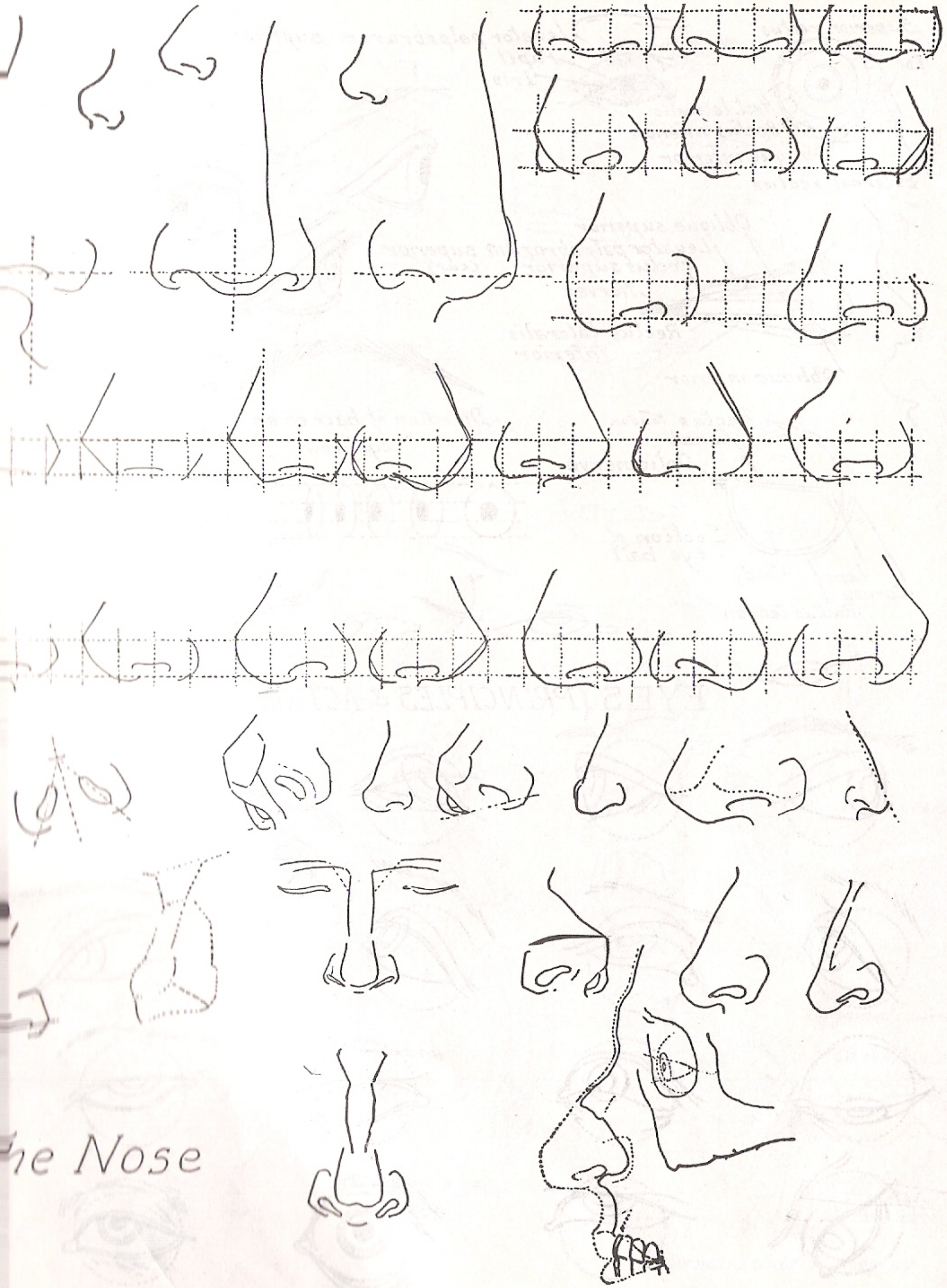
Ears

Two years
Six years
Eight years
Man
Woman
Man
Man
Woman
Man
Old man
Man
Zygomatic arch
Cheek bone
Mastoid process
Mandible (Jaw bone)
External acoustic meatus

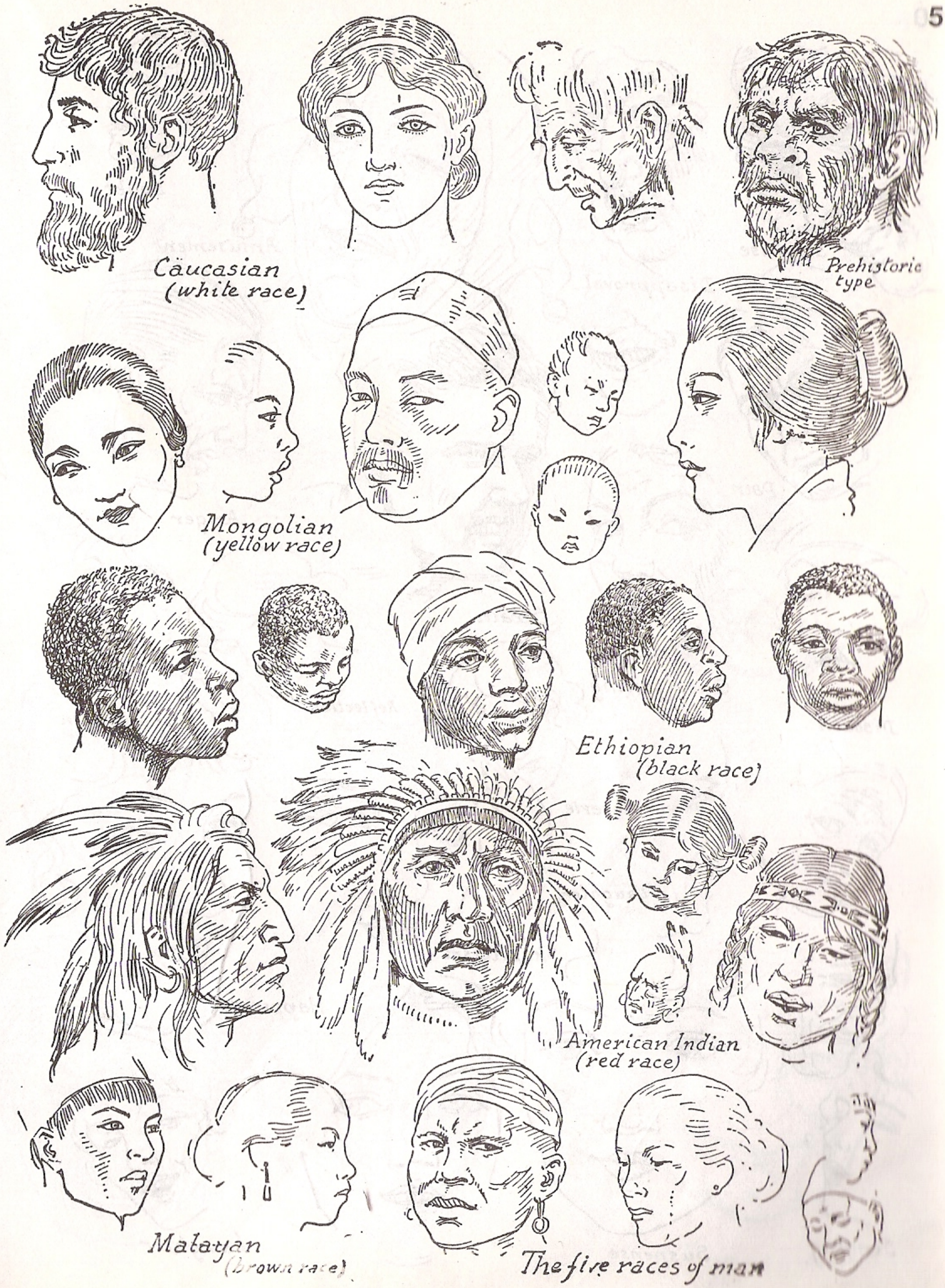


EYES (PRINCIPLES & ACTION)

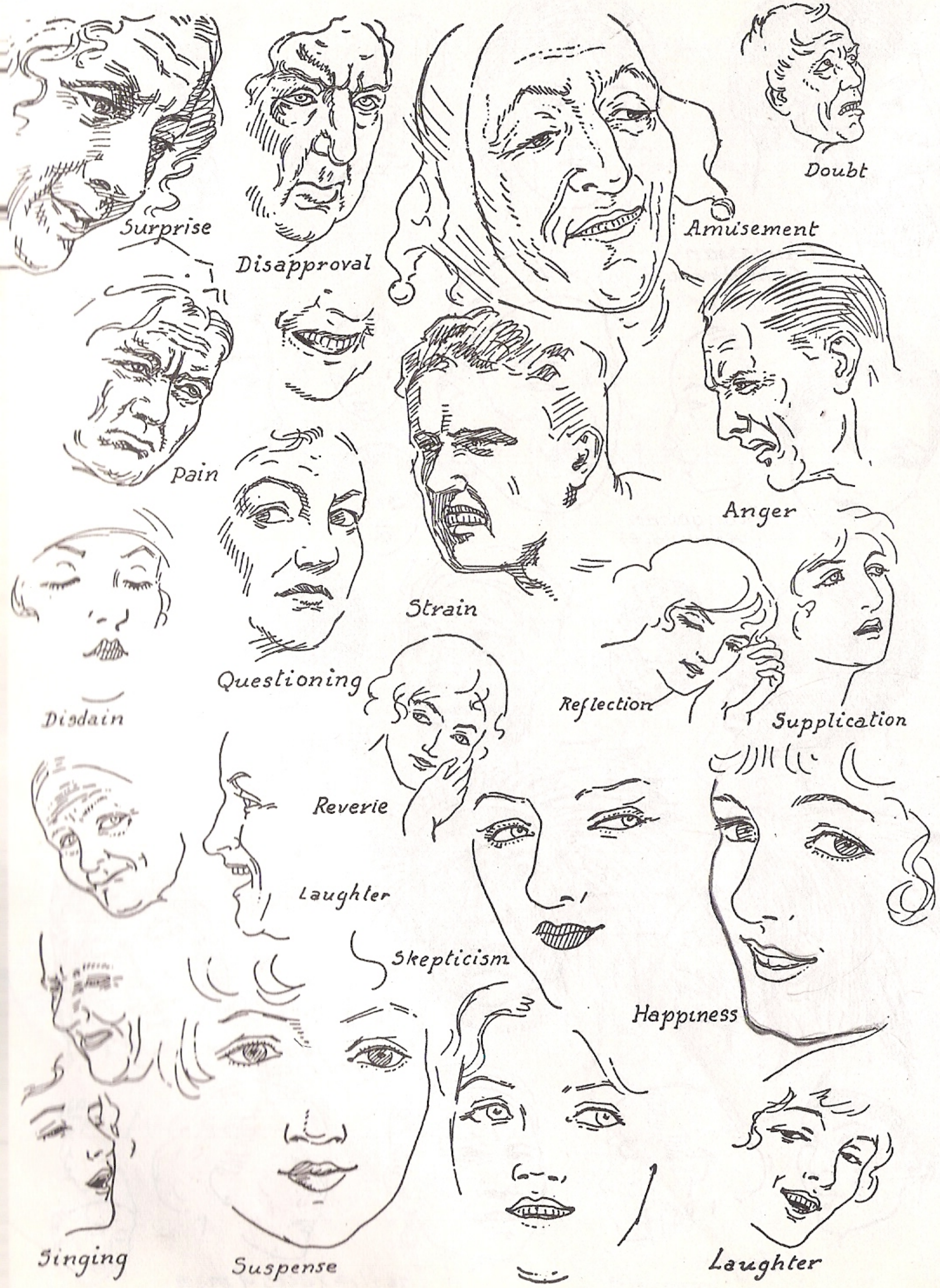
Superior rectus
Fat
Rect. lateralis
Rectus inferior
Oblique inferior
External rectus
Levator palpebrarum superior
Pupil
Iris
Oblique superior
Levator palpebrarum superior (cut)
Rectus superior
Nerves
Rectus lateralis
" inferior
Oblique inferior
Rectus tendon
Canal
Optic nerve
Section of eye ball
Lens
Body
Cornea
Rectus tendon
Direction of hair on an eyebrow
Nose side

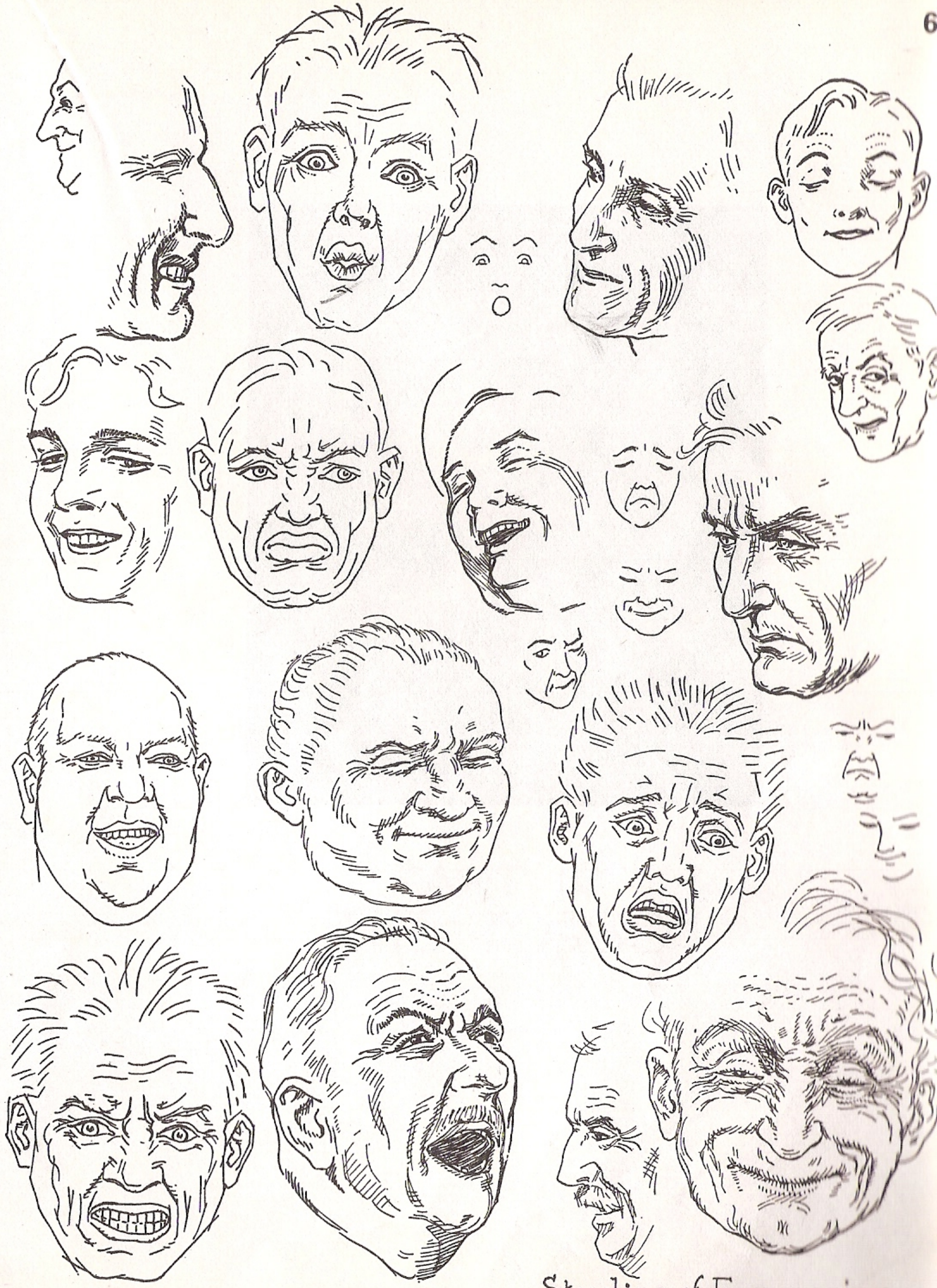


he Nose

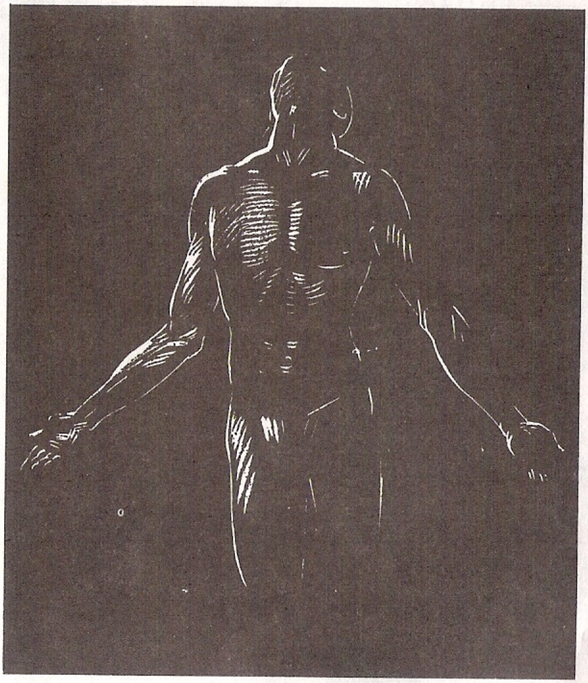

Cäucasian
(white race)
Prehistoric
type
Mongolian
(yellow race)
Ethiopian
(black race)
American Indian
(red race)
Malayan
(brown race)

The five races of man

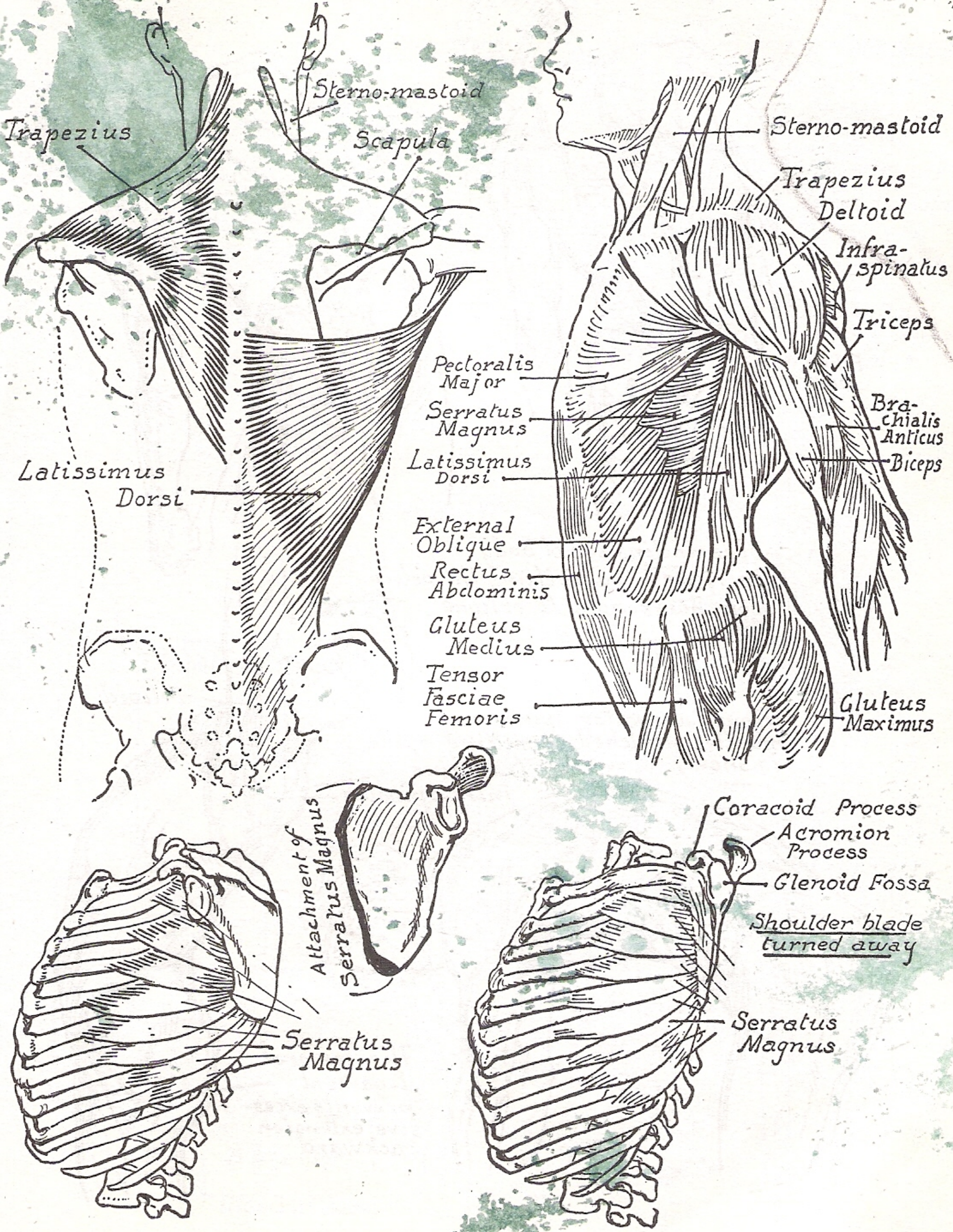

Doubt
Surprise
Amusement
Disapproval
Pain
Anger
Strain
Questioning
Disdain
Reflection
Supplication
Reverie
Laughter
Skepticism
Happiness
Singing
Suspense
Laughter

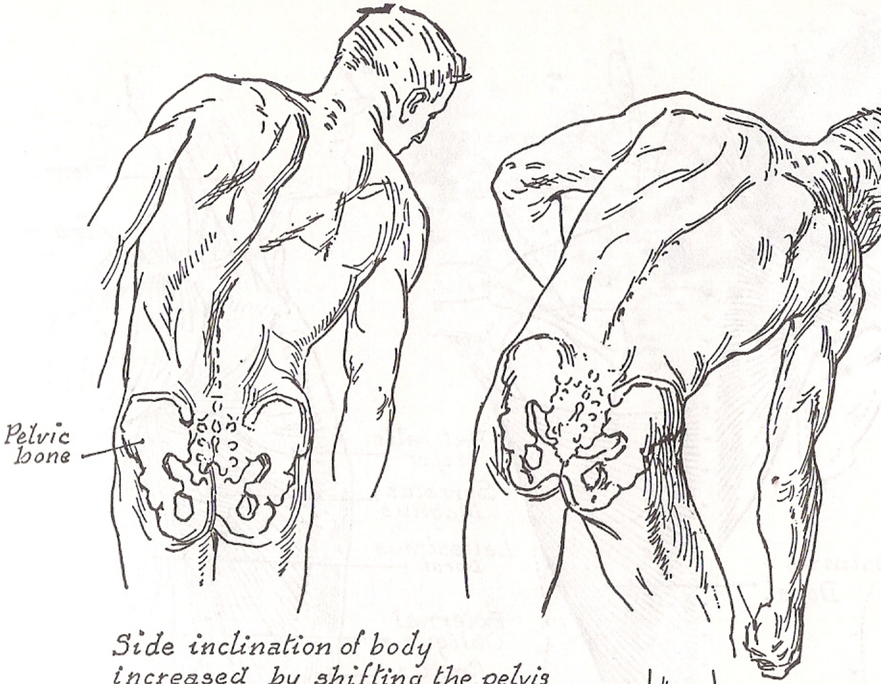


Studies of Expression

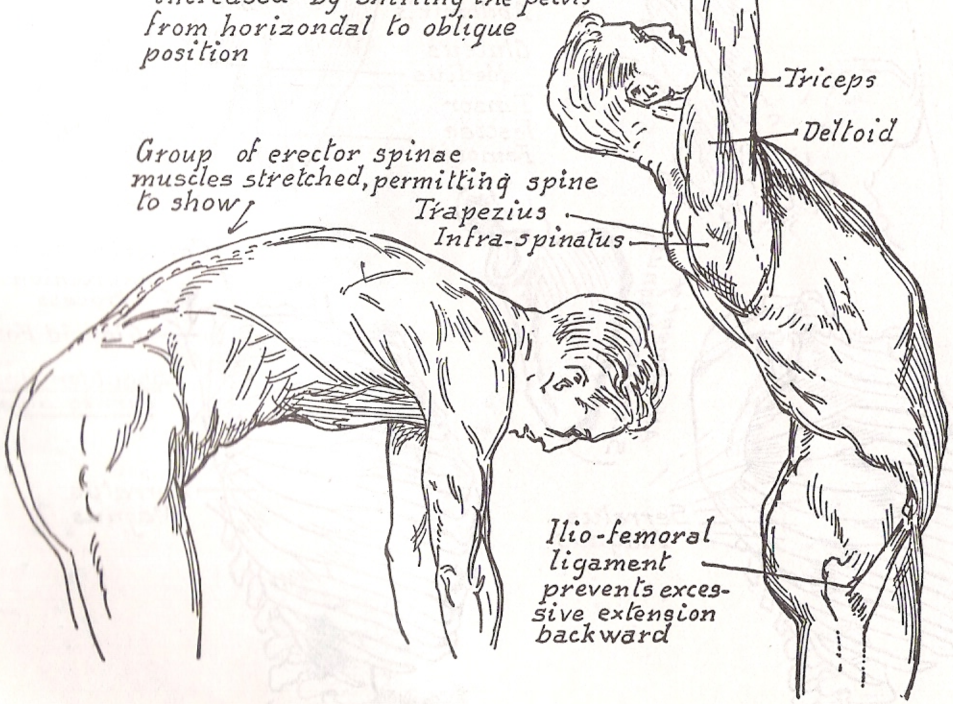


PART IV
THE TORSO


Trapezius
Sterno-mastoid
Scapula
Latissimus Dorsi
Sterno-mastoid
Trapezius
Deltoid
Infra-spinatus
Triceps
Pectoralis Major
Serratus Magnus
Latissimus Dorsi
Bra-chialis Anticus
Biceps
External Oblique
Rectus Abdominis
Gluteus Medius
Tensor Fasciae Femoris
Gluteus Maximus
Attachment of Serratus Magnus
Serratus Magnus
Coracoid Process
Acromion Process
Glenoid Fossa
Shoulder blade turned away
Serratus Magnus

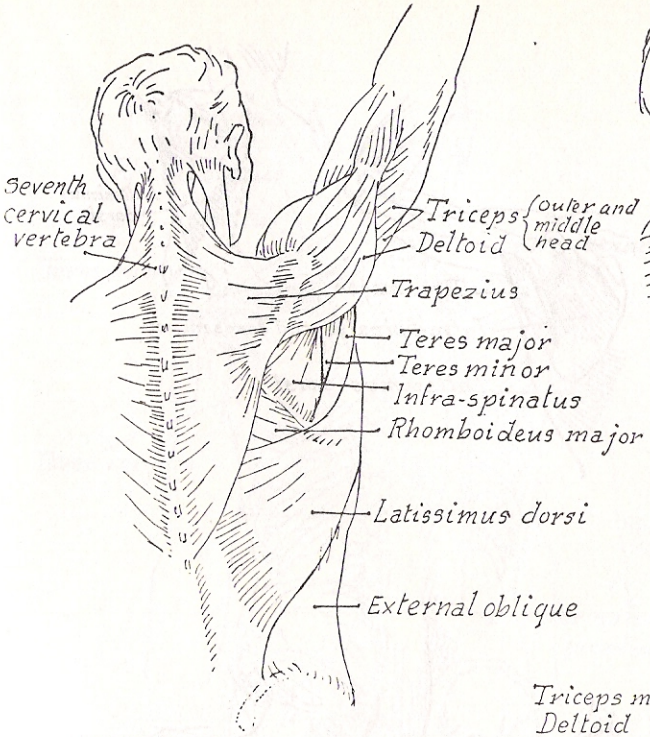

Pelvic bone

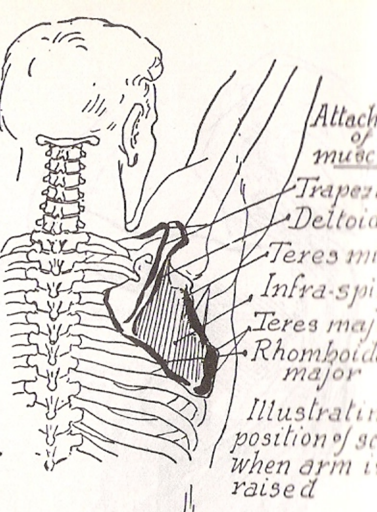
Side inclination of body increased by shifting the pelvis from horizondal to oblique position


Triceps
Deltoid
Trapezius
Infra-spinatus

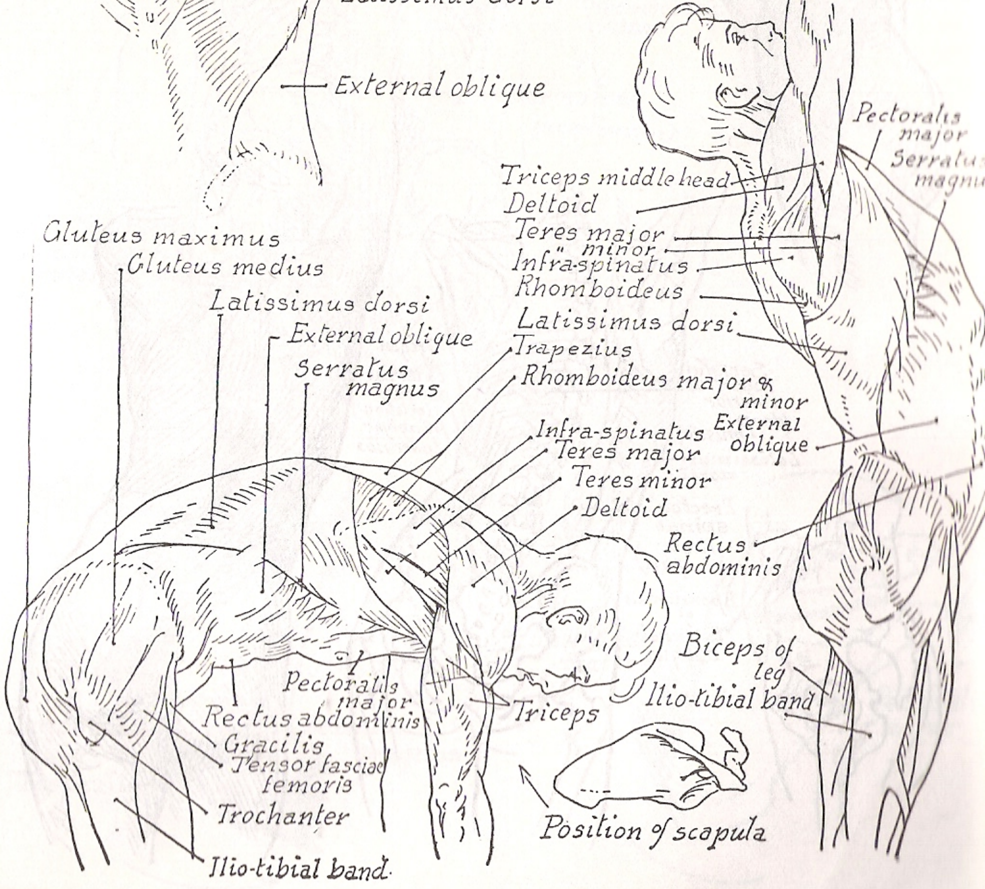
Group of erector spinae muscles stretched, permitting spine to show

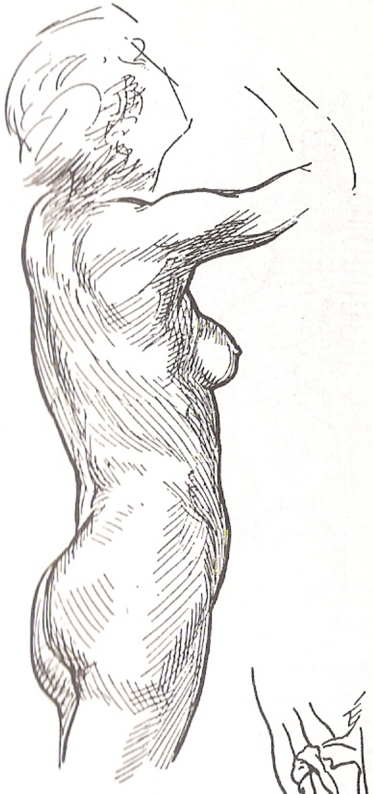
Ilio-femoral ligament prevents excessive extension backward

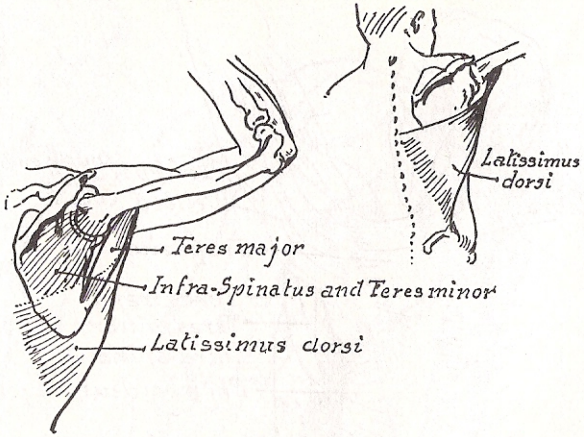

Seventh cervical vertebra
Triceps {outer and middle head
Deltoid
Trapezius
Teres major
Teres minor
Infra-spinatus
Rhomboideus major
Latissimus dorsi
External oblique

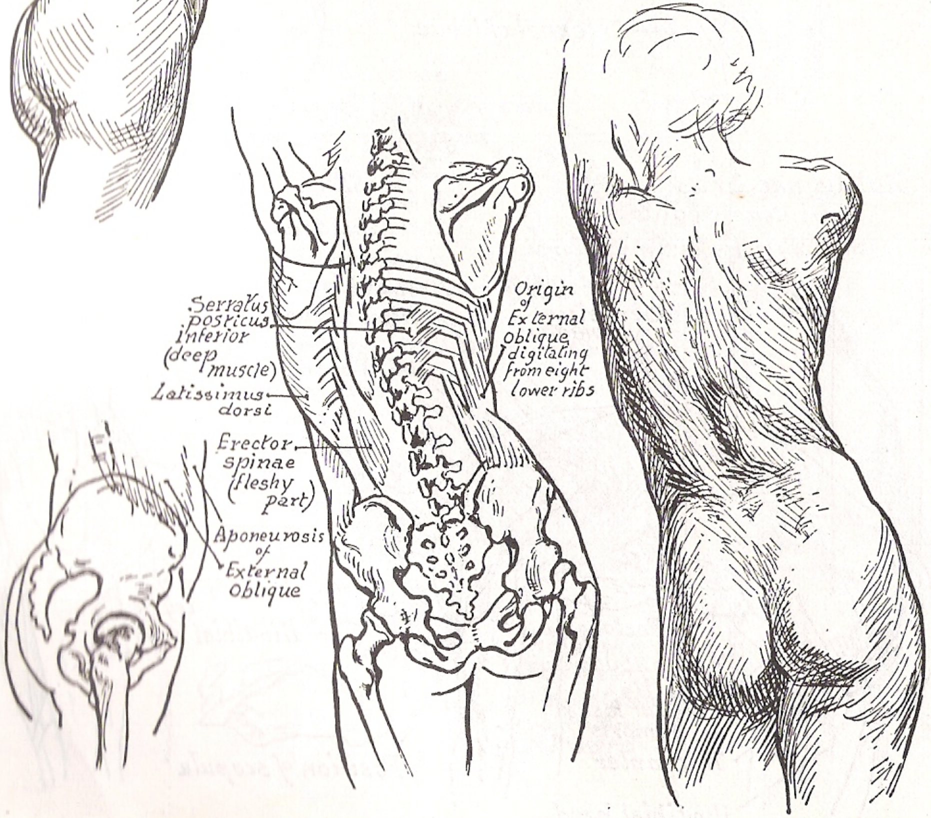

Attach of musc
Trapez
Deltoid
Teres mi
Infra-spi
Teres maj
Rhomboid major

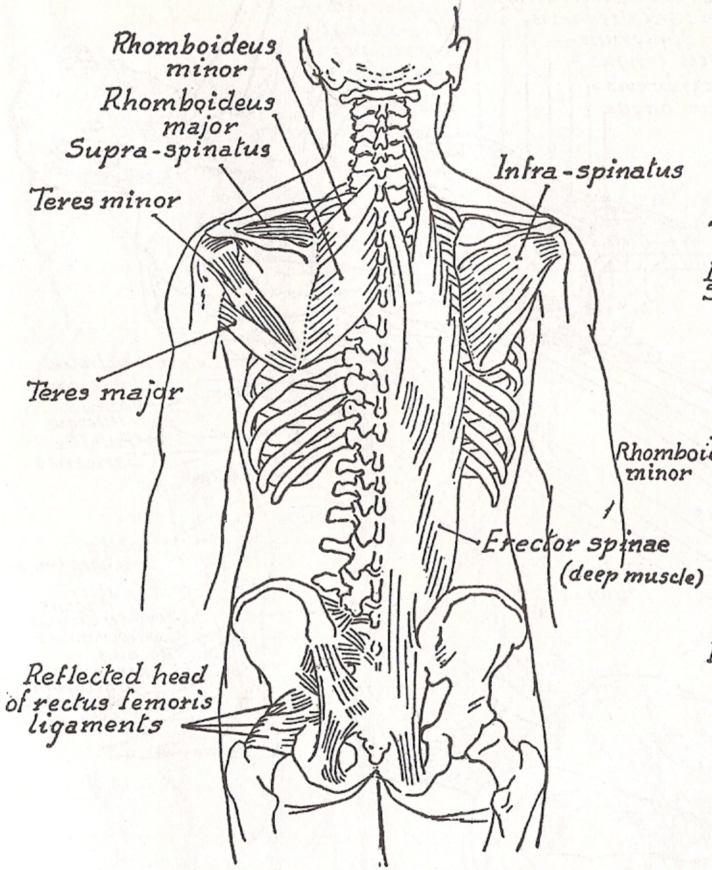
Illustratin position of sc when arm i raised

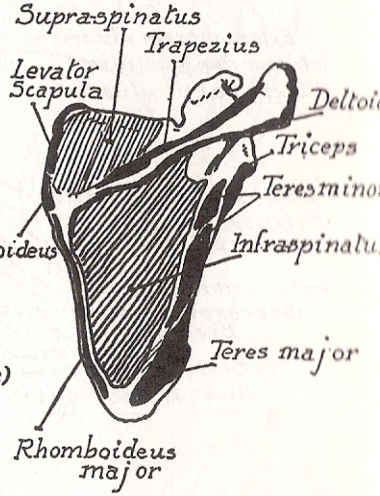

Pectoralis major
Serratus magnu
Triceps middle head
Deltoid
Teres major
" minor
Infra-spinatus
Rhomboideus
Latissimus dorsi
External oblique
Rectus abdominis
Biceps of leg
Ilio-tibial band
Gluteus maximus
Gluteus medius
Latissimus dorsi
External oblique
Serratus magnus
Trapezius
Rhomboideus major & minor
Infra-spinatus
Teres major
Teres minor
Deltoid
Pectoralis major
Rectus abdominis
Gracilis
Tensor fasciae femoris
Trochanter
Ilio-tibial band
Triceps
Position of scapula

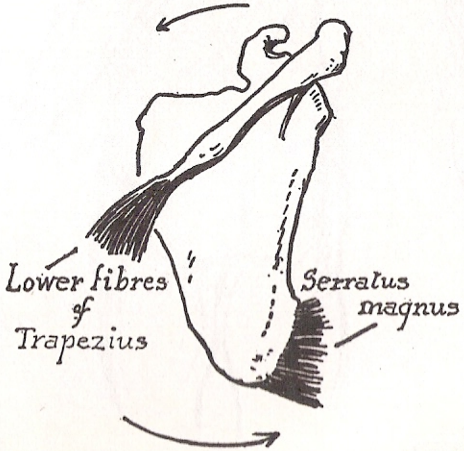


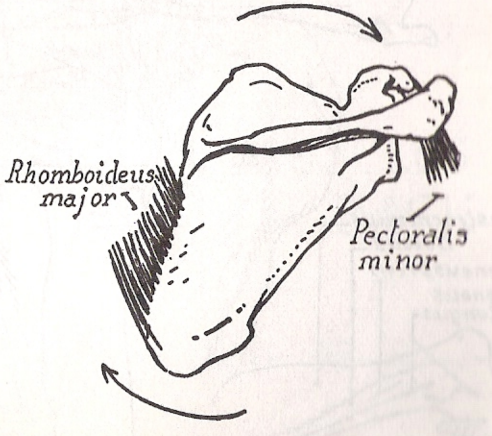

Latissimus dorsi
Teres major
Infra-Spinatus and Teres minor
Latissimus dorsi

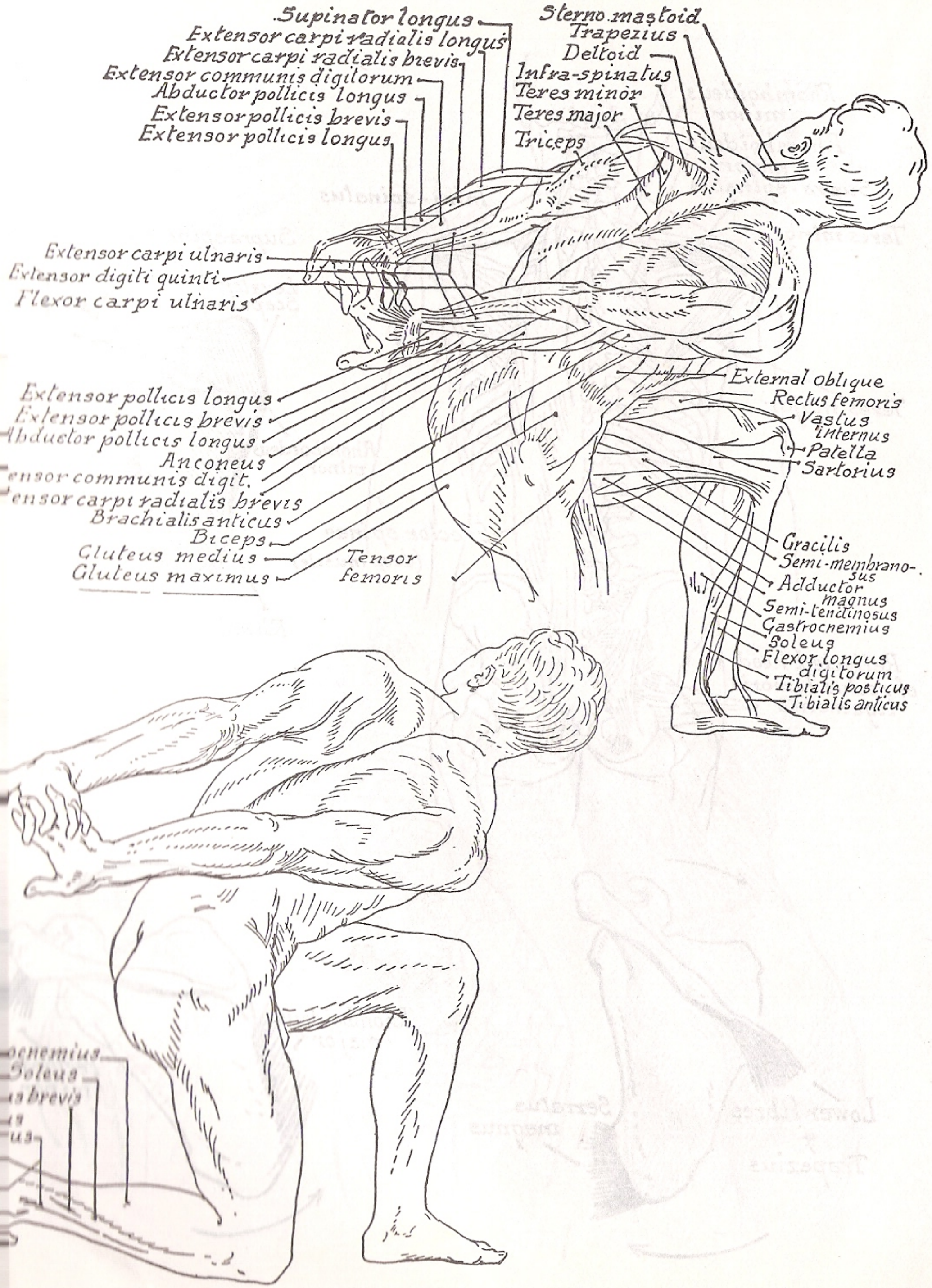

Serratus posticus inferior (deep muscle)
Latissimus dorsi
Erector spinae (fleshy part)
Aponeurosis of External oblique
Origin of External Oblique digitating from eight lower ribs


Rhomboideus minor
Rhomboideus major
Supra-spinatus
Teres minor
Infra-spinatus
Teres major
Rhomboideus minor
Erector spinae (deep muscle)
Reflected head of rectus femoris ligaments

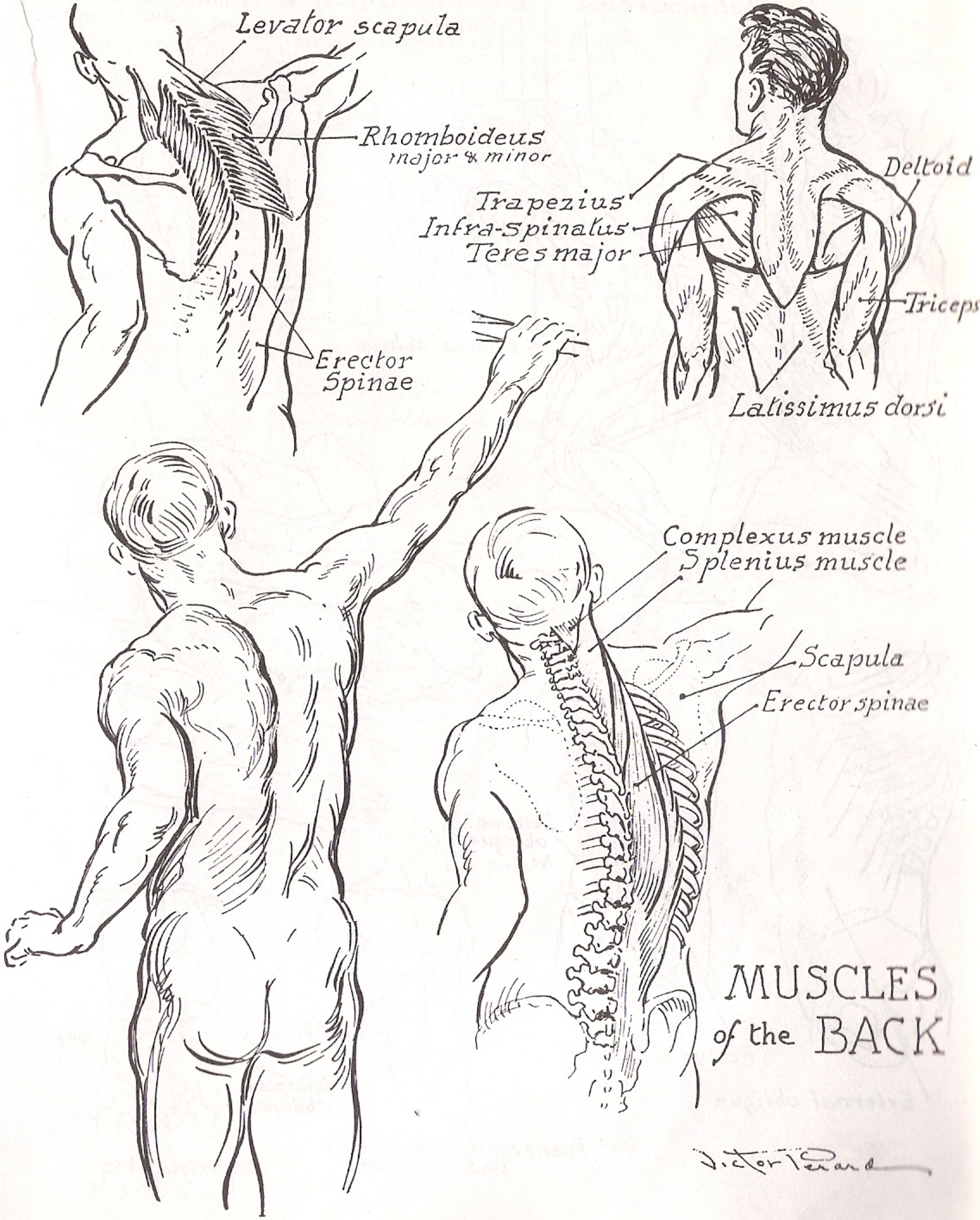

Supraspinatus
Trapezius
Levator Scapula
Deltoi
Triceps
Teres mino
Infraspinatu
Teres major
Rhomboideus major


Lower fibres of Trapezius
Serratus magnus

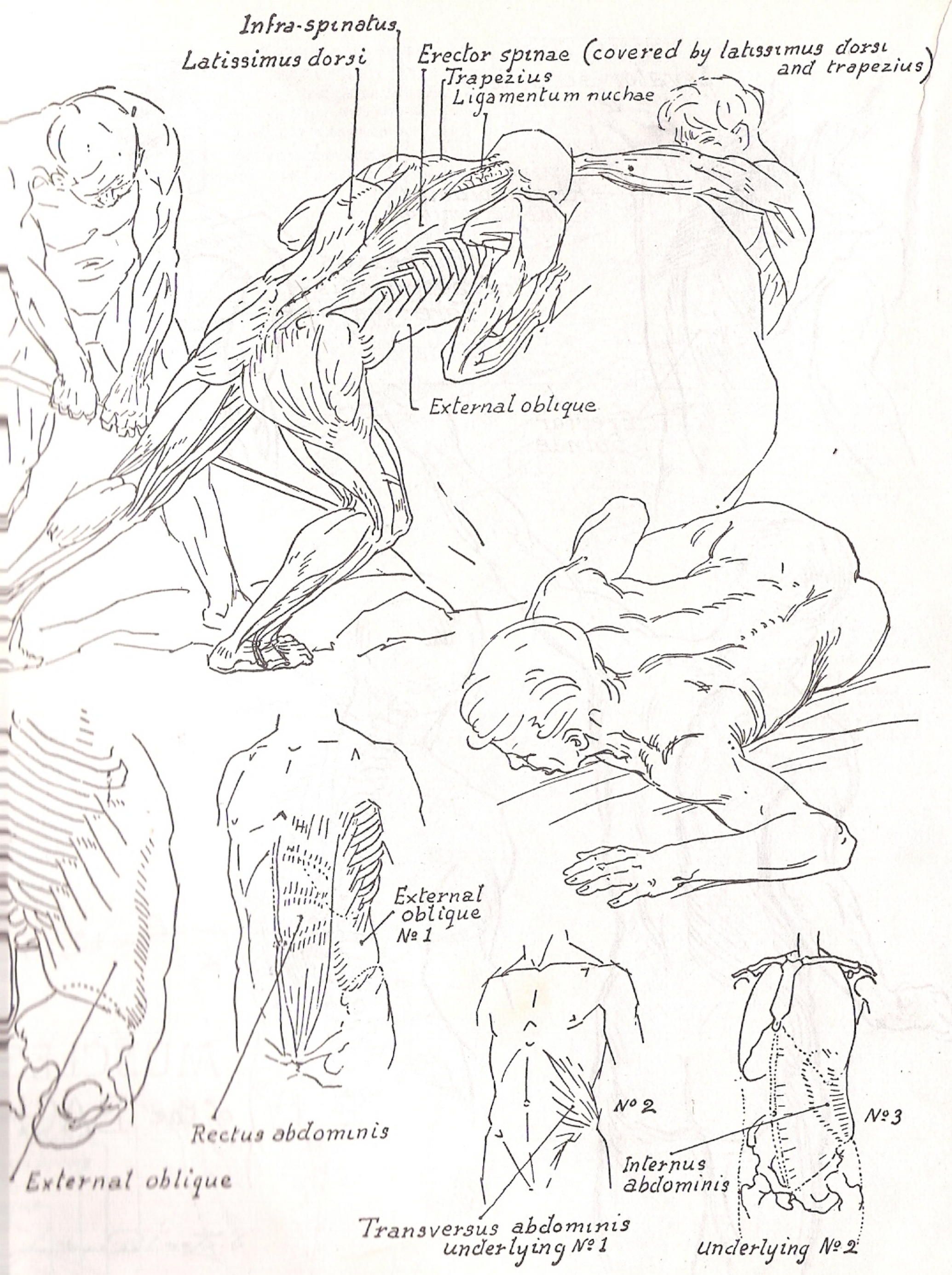

Rhomboideus major
Pectoralis minor

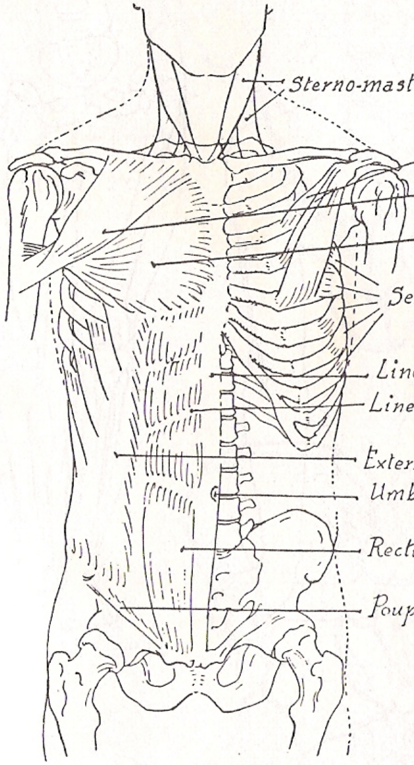

Supinator longus
Extensor carpi radialis longus
Extensor carpi radialis brevis
Extensor communis digitorum
Abductor pollicis longus
Extensor pollicis brevis
Extensor pollicis longus
Sterno.mastoid
Trapezius
Deltoid
Infra-spinatus
Teres minor
Teres major
Triceps
Extensor carpi ulnaris
Extensor digiti quinti
Flexor carpi ulnaris
Extensor pollicis longus
Extensor pollicis brevis
bductor pollicis longus
Anconeus
ensor communis digit.
ensor carpi radialis brevis
Brachialis anticus
Biceps
Gluteus medius
Gluteus maximus
Tensor femoris
External oblique
Rectus femoris
Vastus internus
Patella
Sartorius
Gracilis
Semi-membranosus
Adductor magnus
Semi-tendinosus
Gastrocnemius
Soleus
Flexor longus digitorum
Tibialis posticus
Tibialis anticus
cnemius
Soleus
s brevis
us

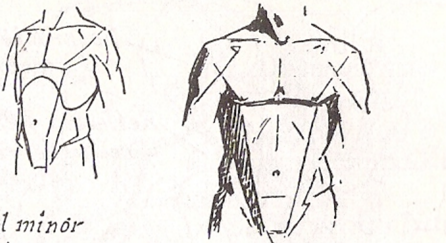
MUSCLES of the BACK

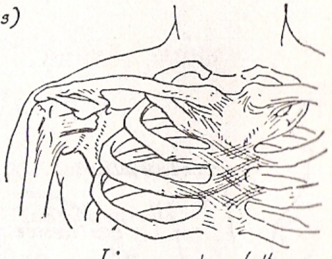

Levator scapula
Rhomboideus major & minor
Erector Spinae
Trapezius
Infra-spinatus
Teres major
Deltoid
Triceps
Latissimus dorsi
Complexus muscle
Splenius muscle
Scapula
Erector spinae

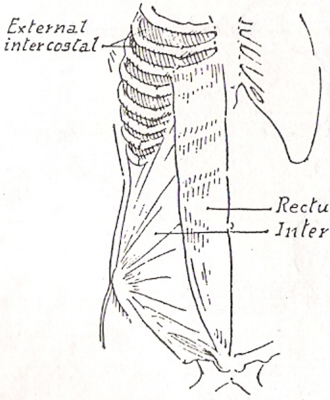
Victor Perard

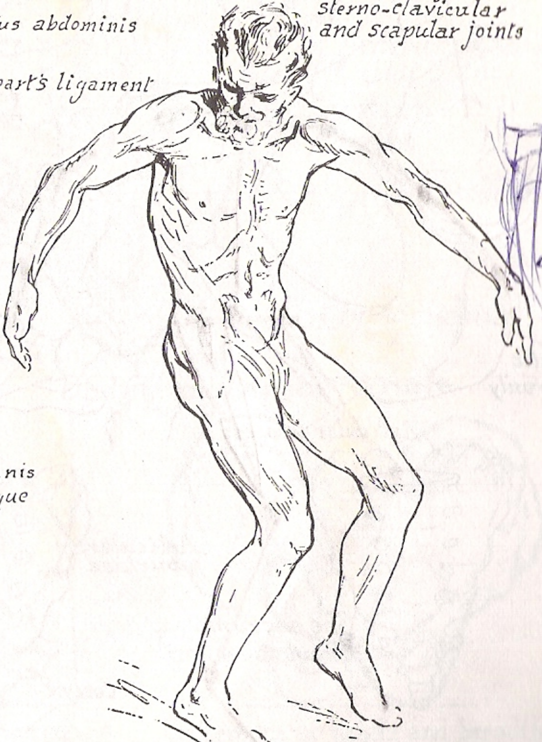

Infra-spinatus
Latissimus dorsi
Erector spinae (covered by latissimus dorsi and trapezius)
Trapezius
Ligamentum nuchae
External oblique
External oblique Nº 1
Rectus abdominis
External oblique
Nº 2
Nº 3
Internus abdominis
Transversus abdominis underlying Nº 1
Underlying Nº 2


Sterno-mastoid
Pectoral minor
Pectoral major (clavicular fibres)
Pectoral major (sternal fibres)
Serratus magnus
Linea alba
Lineae transversae
External oblique
Umbilicus
Rectus abdominis
Poupart's ligament

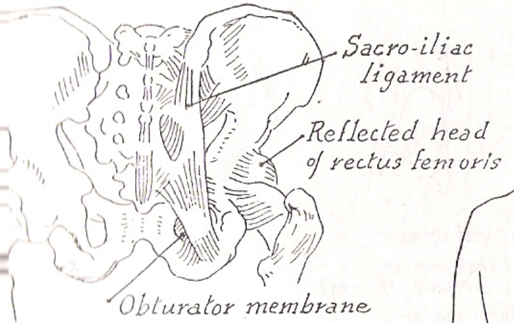


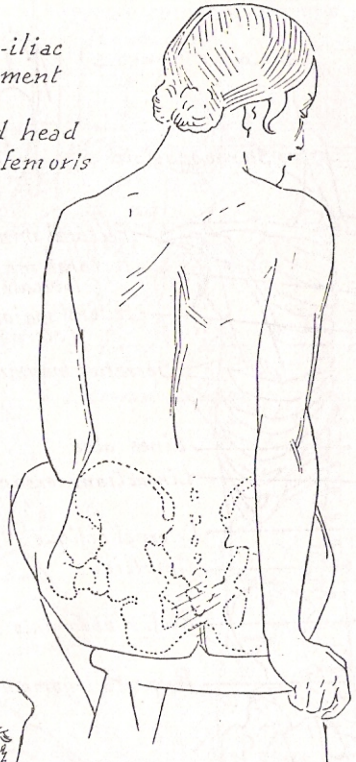

Ligaments of the sterno-clavicular and scapular joints

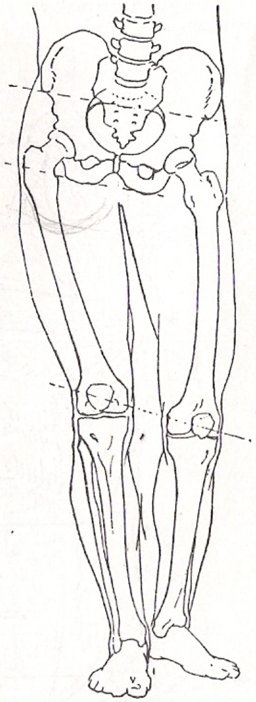

External intercostal
Rectus abdominis
Internal oblique

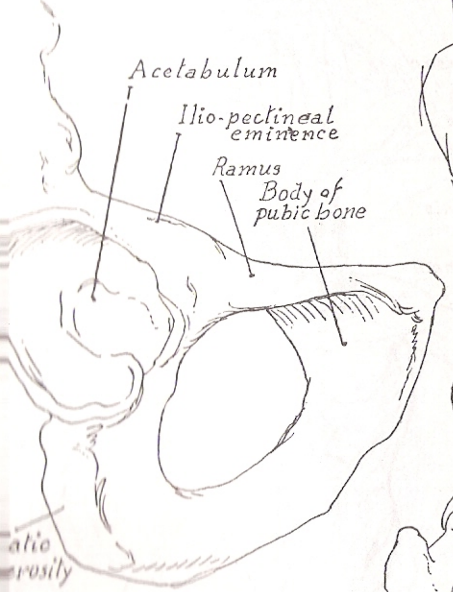


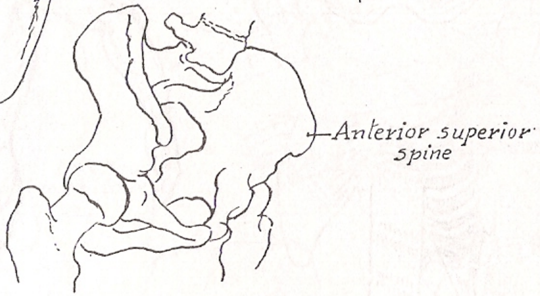
Victor Perard

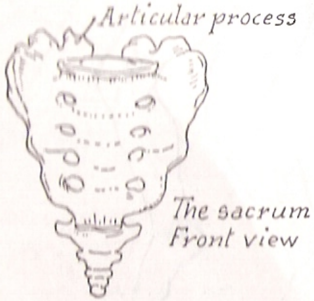

Sacro-iliac ligament
Reflected head of rectus femoris
Obturator membrane

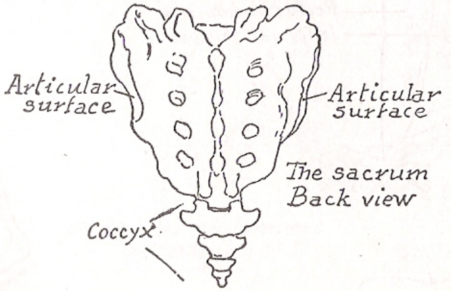


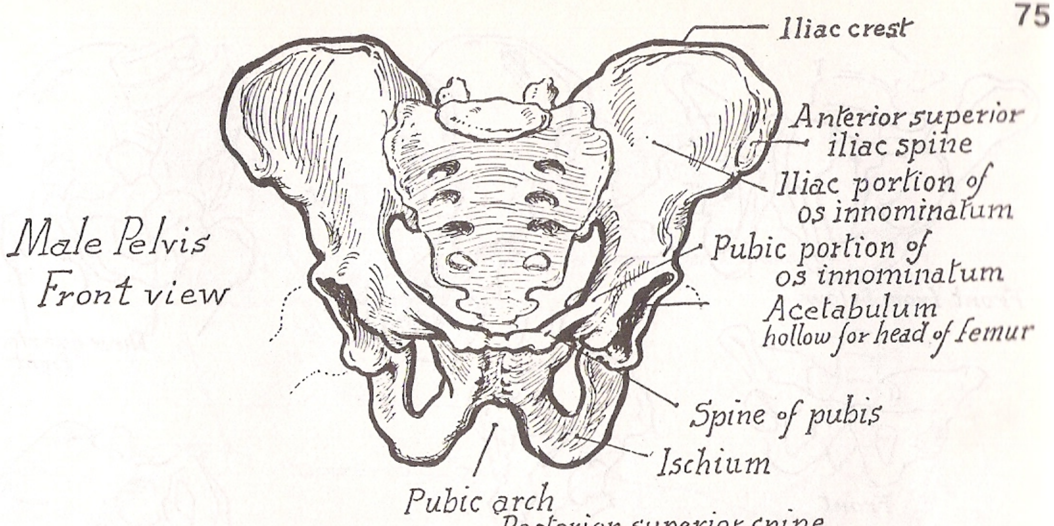


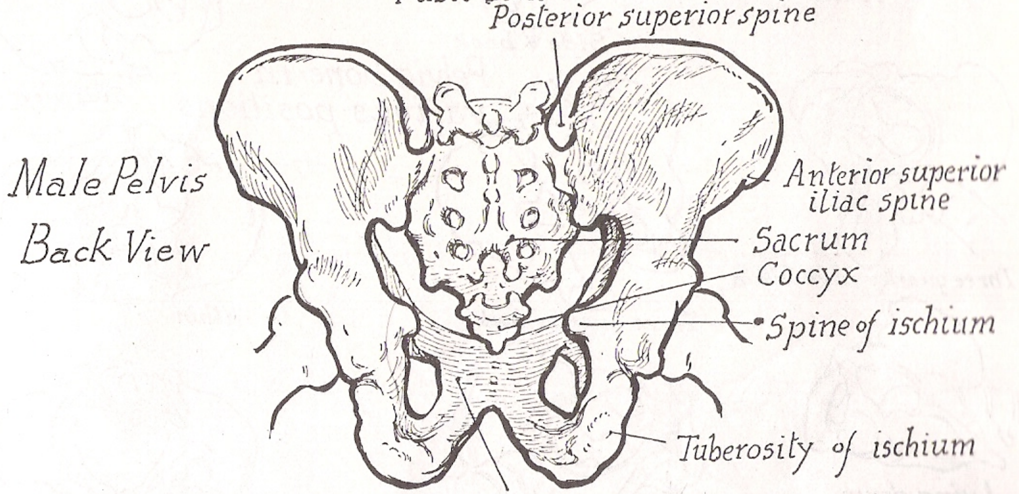

Acetabulum
Ilio-pectineal eminence
Ramus
Body of pubic bone
atic
rosity

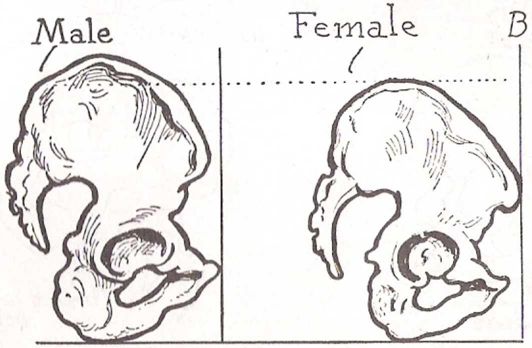

Anterior superior spine


Articular process
The sacrum Front view

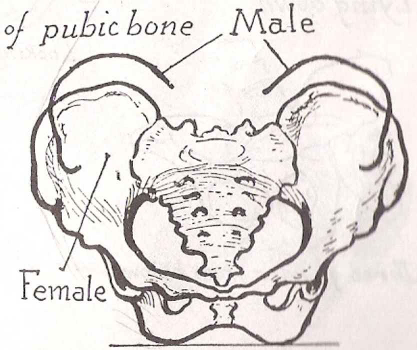

Articular surface
Articular surface
The sacrum Back view
Coccyx


Male Pelvis Front view
Iliac crest
Anterior superior iliac spine
Iliac portion of os innominatum
Pubic portion of os innominatum
Acetabulum hollow for head of femur
Spine of pubis
Ischium
Pubic arch


Posterior superior spine
Male Pelvis Back View
Anterior superior iliac spine
Sacrum
Coccyx
Spine of ischium
Tuberosity of ischium
Body of pubic bone

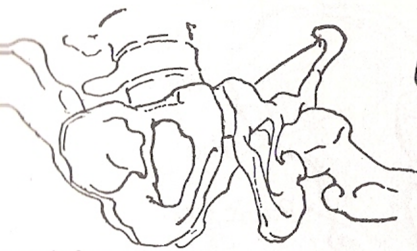

Male
Female

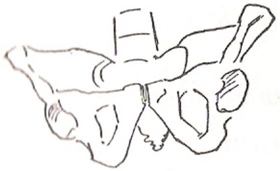
Showing female bone tilted forward

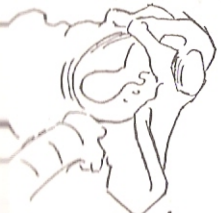

Male
Female

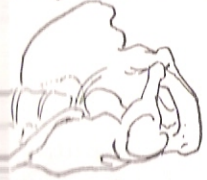
Difference of height and breadth

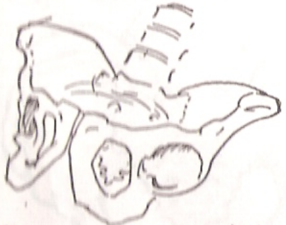
Pelvic bone in various positions

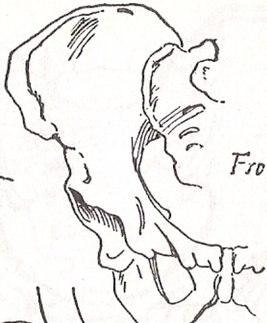

ront from below

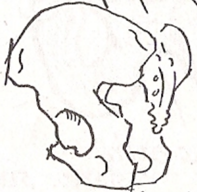

Front

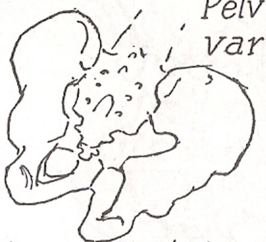

ree quarter view within

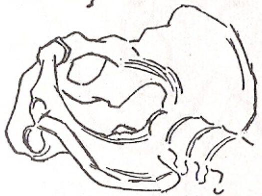

Lying down

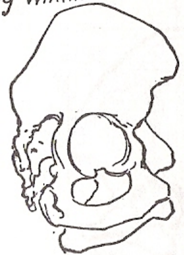

Three quarter from below

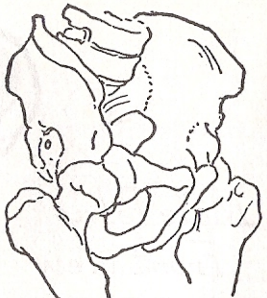

Front

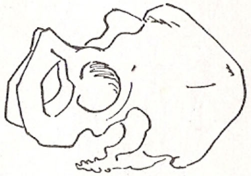

Side & back

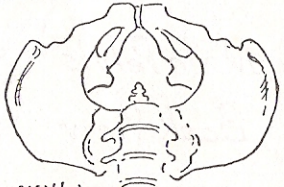

Three quarter back

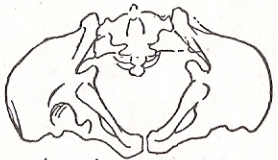

Looking within

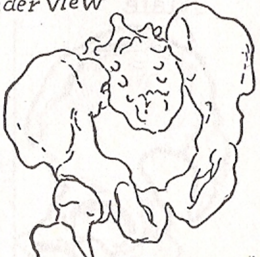

Side

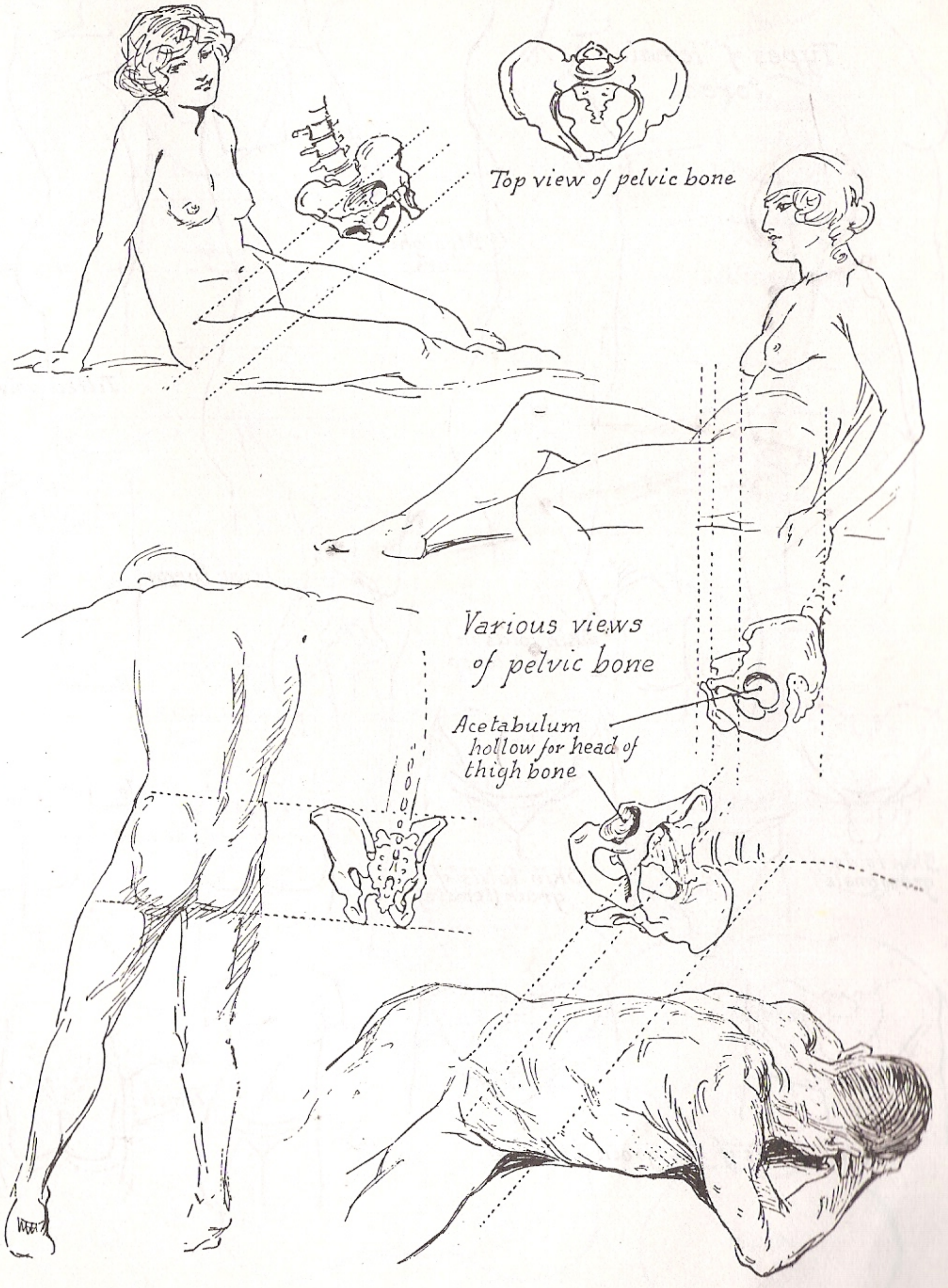

Three quarter front


Side view


Within

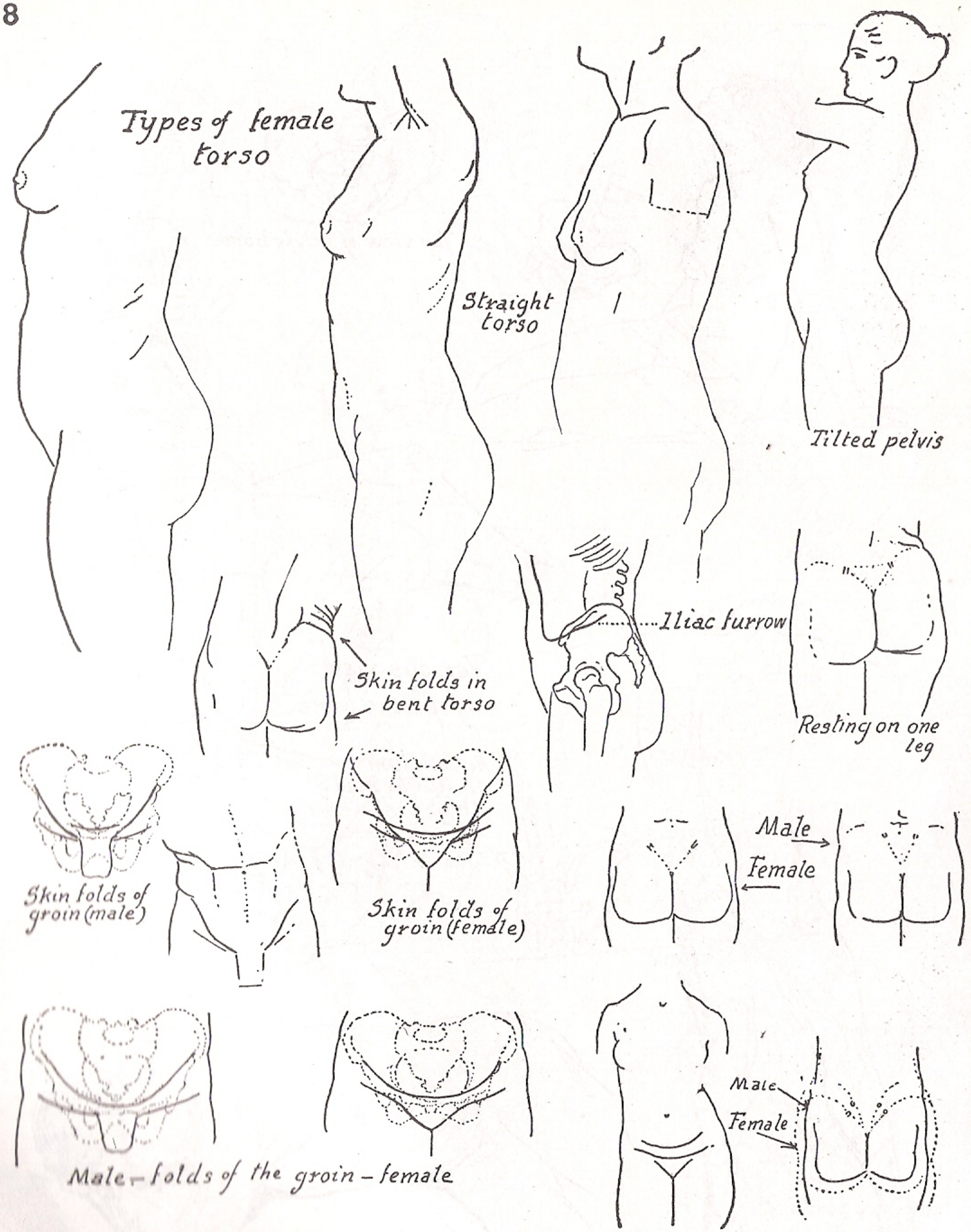

Under view

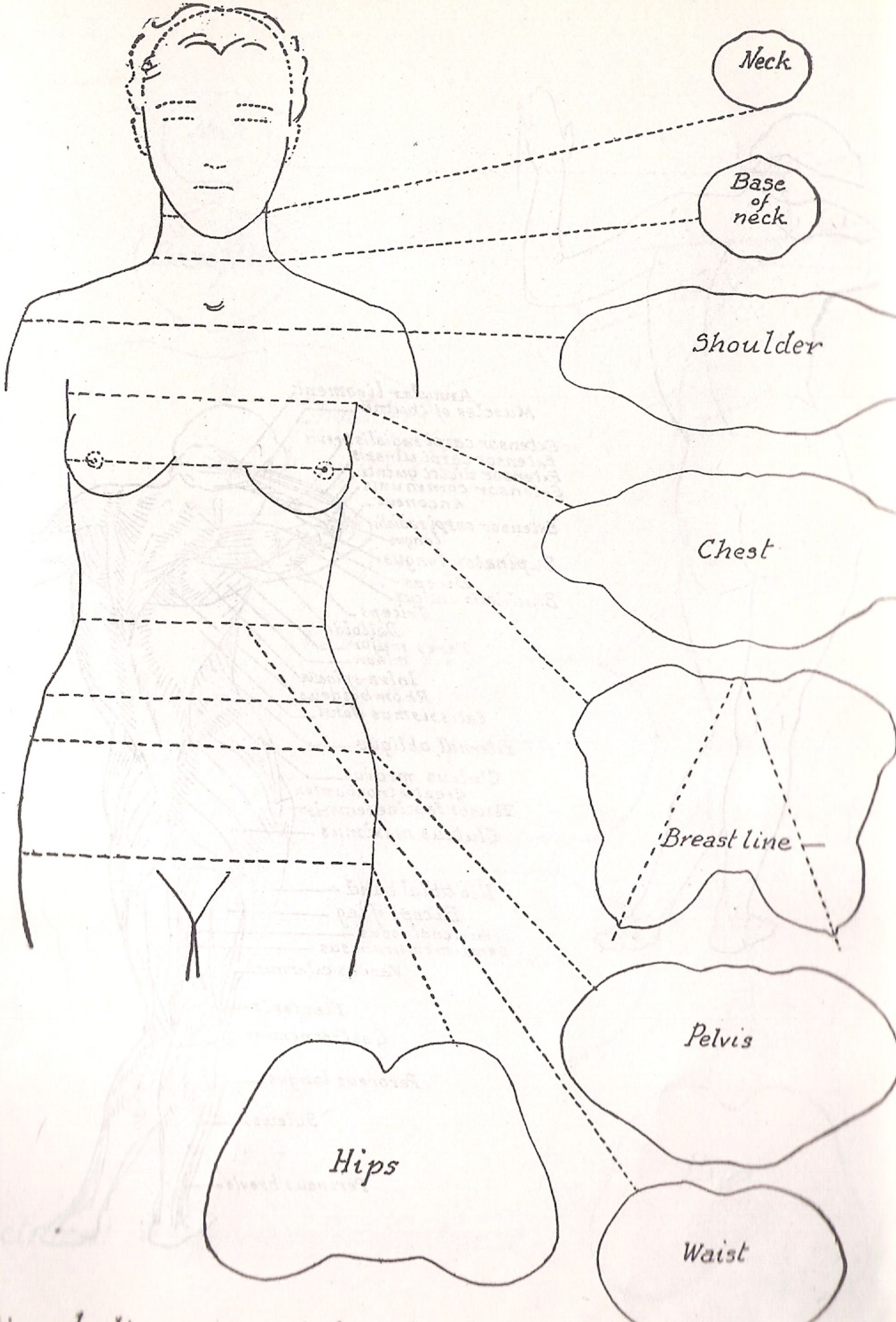

Three quarter back


Top view of pelvic bone
Various views of pelvic bone
Acetabulum hollow for head of thigh bone

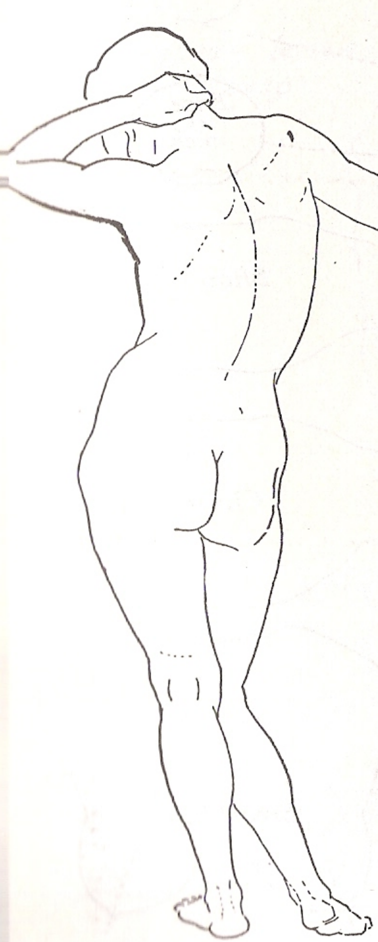
Victor Perard

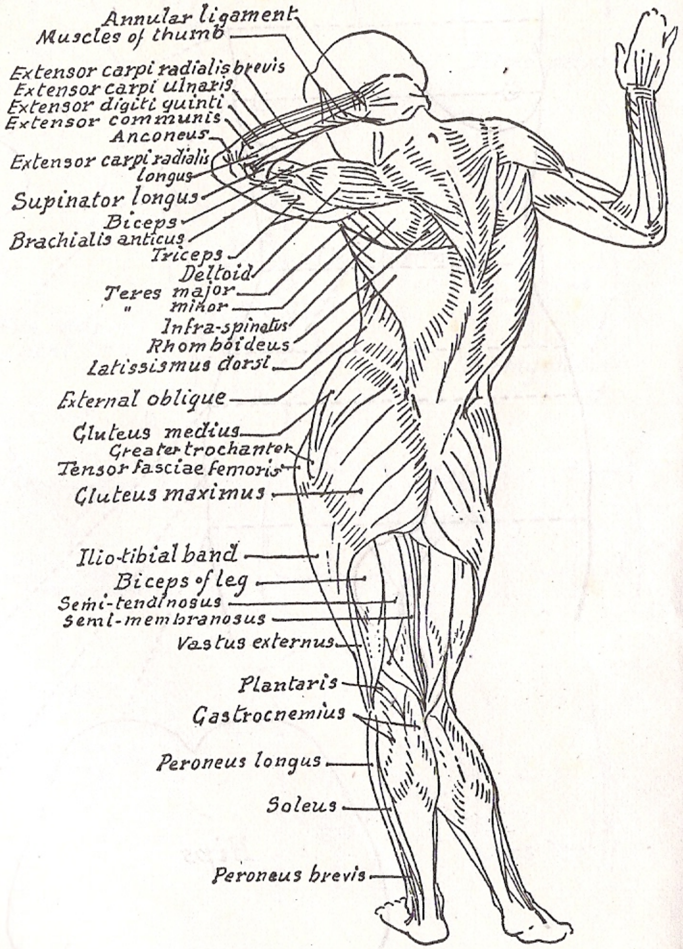
Types of female torso

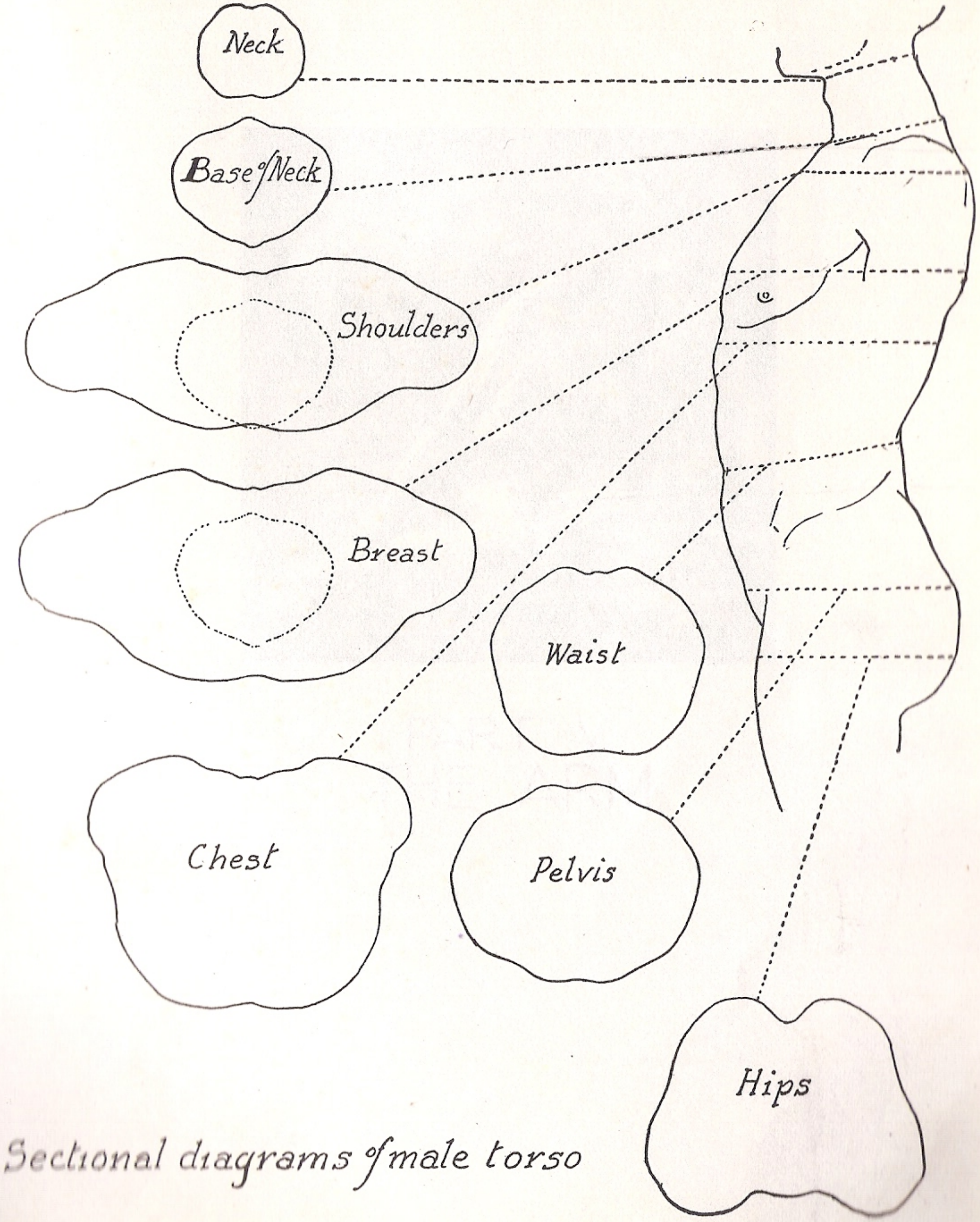

Straight torso
Tilted pelvis
Iliac furrow
Skin folds in bent torso
Resting on one leg
Skin folds of groin (male)
Skin folds of groin (female)
Male
Female
Male
Female
Male – folds of the groin – female


Neck
Base of neck
Shoulder
Chest
Breast line
Pelvis
Hips
Waist

Sectional diagrams of female torso



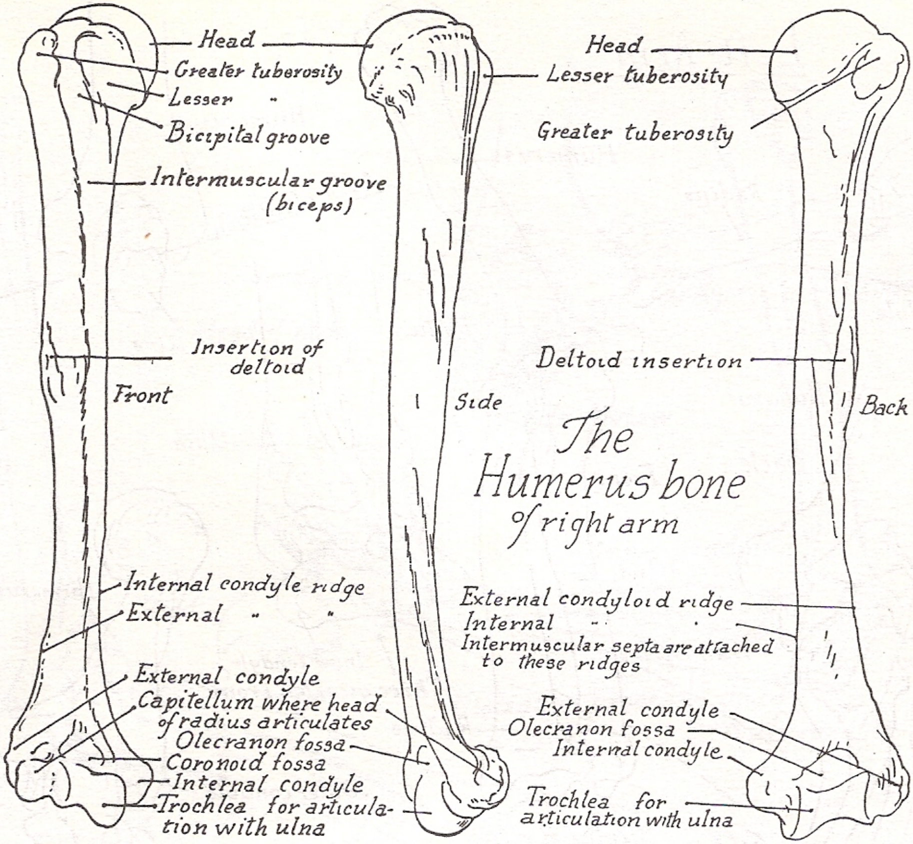

Annular ligament
Muscles of thumb
Extensor carpi radialis brevis
Extensor carpi ulnaris
Extensor digiti quinti
Extensor communis
Anconeus
Extensor carpi radialis longus
Supinator longus
Biceps
Brachialis anticus
Triceps
Deltoid
Teres major
" minor
Infra-spinatus
Rhomboideus
Latissimus dorsi
External oblique
Gluteus medius
Greater trochanter
Tensor fasciae femoris
Gluteus maximus
Ilio-tibial band
Biceps of leg
Semi-tendinosus
Semi-membranosus
Vastus externus
Plantaris
Gastrocnemius
Peroneus longus
Soleus
Peroneus brevis

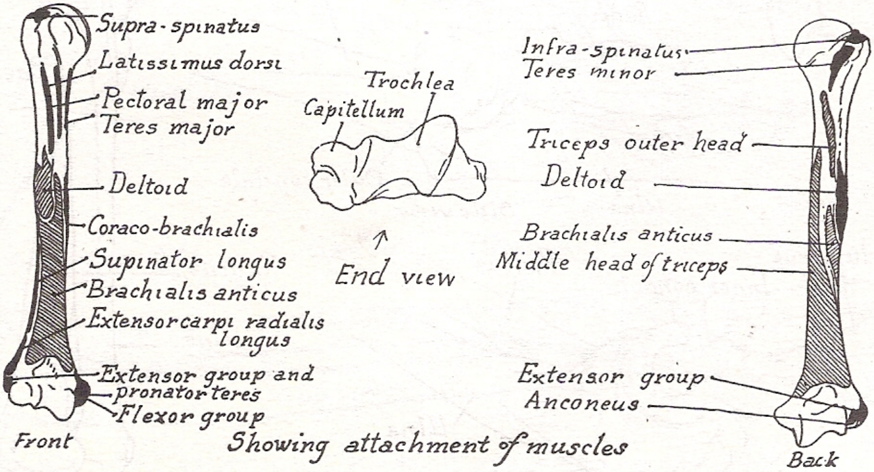

Neck
Base of Neck
Shoulders
Breast
Waist
Chest
Pelvis
Hips

Sectional diagrams of male torso

PART V
THE ARM

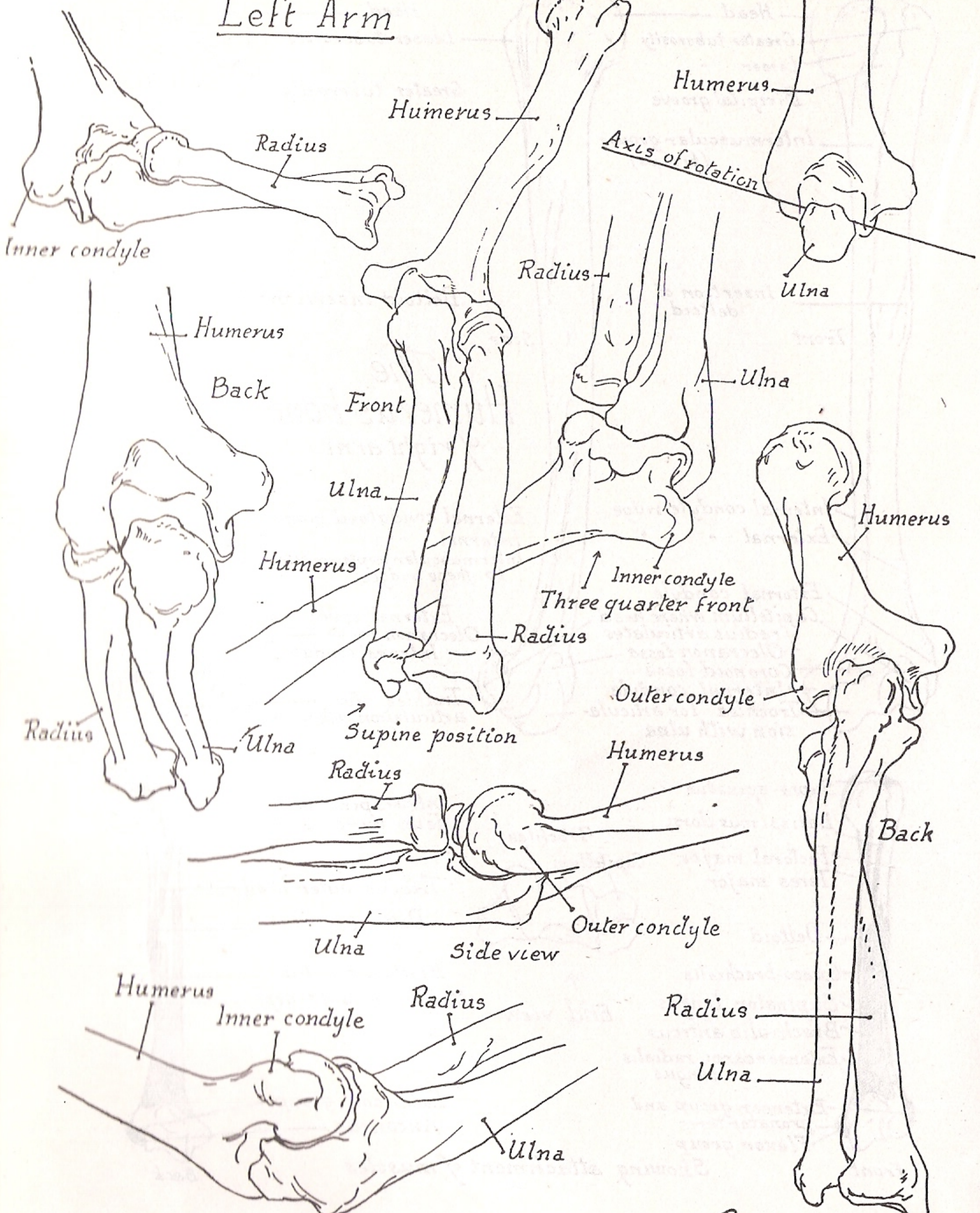
The Humerus bone of right arm


Head
Greater tuberosity
Lesser "
Bicipital groove
Intermuscular groove (biceps)
Insertion of deltoid
Front
Internal condyle ridge
External " "
External condyle
Capitellum where head of radius articulates
Olecranon fossa
Coronoid fossa
Internal condyle
Trochlea for articulation with ulna
Side
Head
Lesser tuberosity
Greater tuberosity
Deltoid insertion
Back
External condyloid ridge
Internal " "
Intermuscular septa are attached to these ridges
External condyle
Olecranon fossa
Internal condyle
Trochlea for articulation with ulna


Supra-spinatus
Latissimus dorsi
Pectoral major
Teres major
Deltoid
Coraco-brachialis
Supinator longus
Brachialis anticus
Extensor carpi radialis longus
Extensor group and pronator teres
Flexor group
Front
Trochlea
Capitellum
End view
Infra-spinatus
Teres minor
Triceps outer head
Deltoid
Brachialis anticus
Middle head of triceps
Extensor group
Anconeus
Back

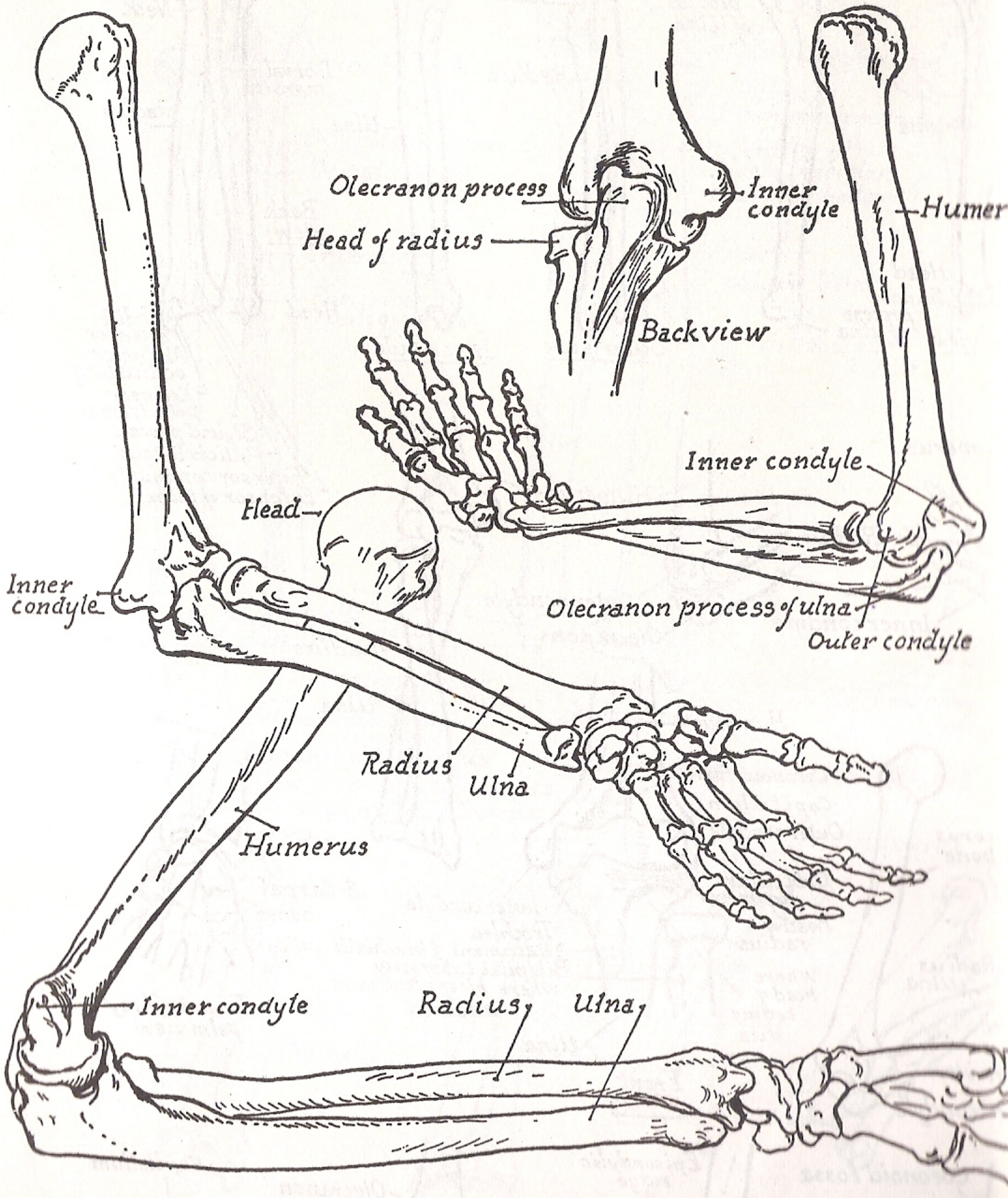
Showing attachment of muscles

Left Arm

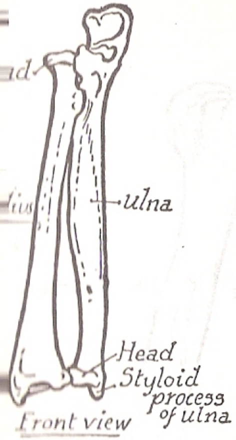

Radius
Inner condyle
Humerus
Back
Radius
Ulna
Humerus
Front
Ulna
Humerus
Radius
Supine position
Humerus
Axis of rotation
Ulna
Radius
Ulna
Inner condyle
Three quarter front
Humerus
Outer condyle
Back
Radius
Ulna
Humerus
Ulna
Side view
Outer condyle
Humerus
Inner condyle
Radius
Ulna
Radius
Ulna

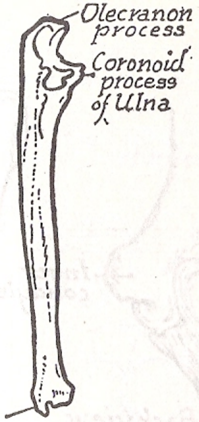
Prone position

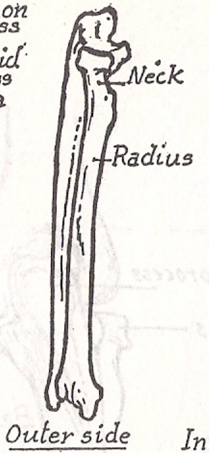
Various positions of arm bones

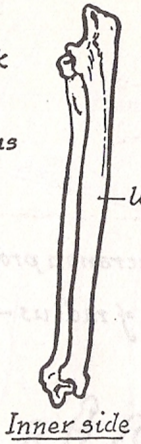

Olecranon process
Head of radius
Inner condyle
Humer
Backview
Inner condyle
Head
Inner condyle
Olecranon process of ulna
Outer condyle
Radius
Ulna
Humerus
Inner condyle
Radius
Ulna

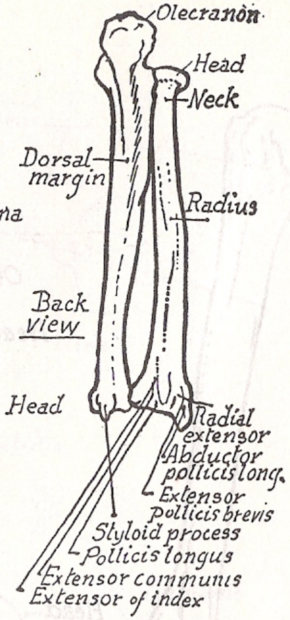
Bones of Arm and Hand

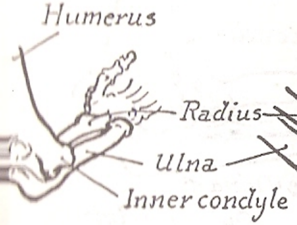

ad
Ulna
Head
Styloid process of ulna
Front view

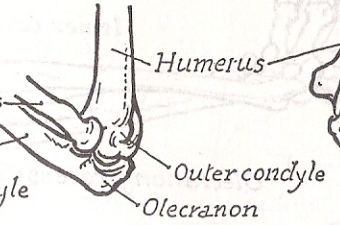

Olecranon process
Coronoid process of Ulna

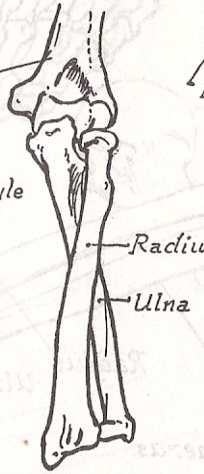

Neck
Radius
Outer side

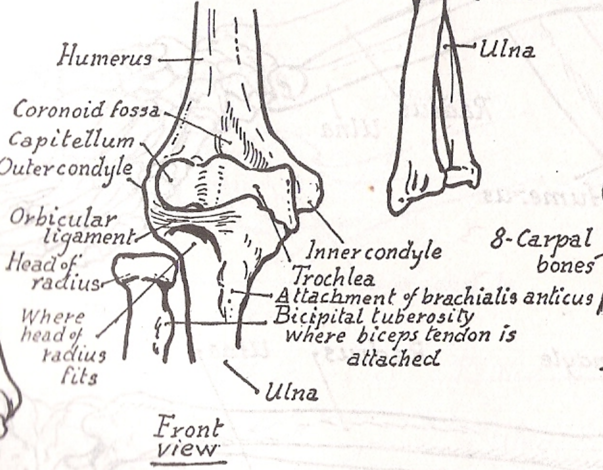

Ulna
Inner side

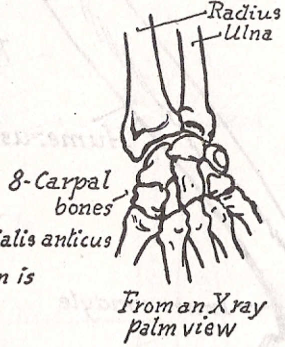

Olecranon
Head
Neck
Dorsal margin
Radius
Back view
Head
Radial extensor
Abductor pollicis long.
Extensor pollicis brevis
Styloid process
Pollicis longus
Extensor communis
Extensor of index

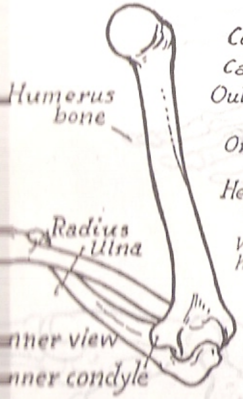

Humerus
Radius
Ulna
Inner condyle

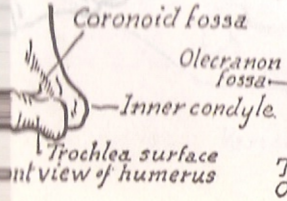

Humerus
Outer condyle
Olecranon

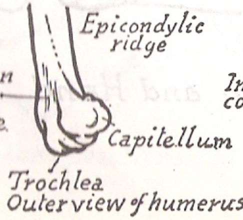

Radius
Ulna

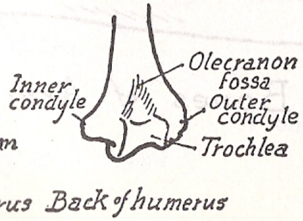

Humerus
Coronoid fossa
Capitellum
Outer condyle
Orbicular ligament
Head of radius
Where head of radius fits
Inner condyle
Trochlea
Attachment of brachialis anticus
Bicipital tuberosity where biceps tendon is attached
Ulna
Front view

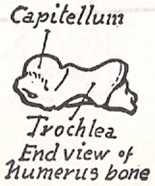

Radius
Ulna
8-Carpal bones
From an X ray palm view

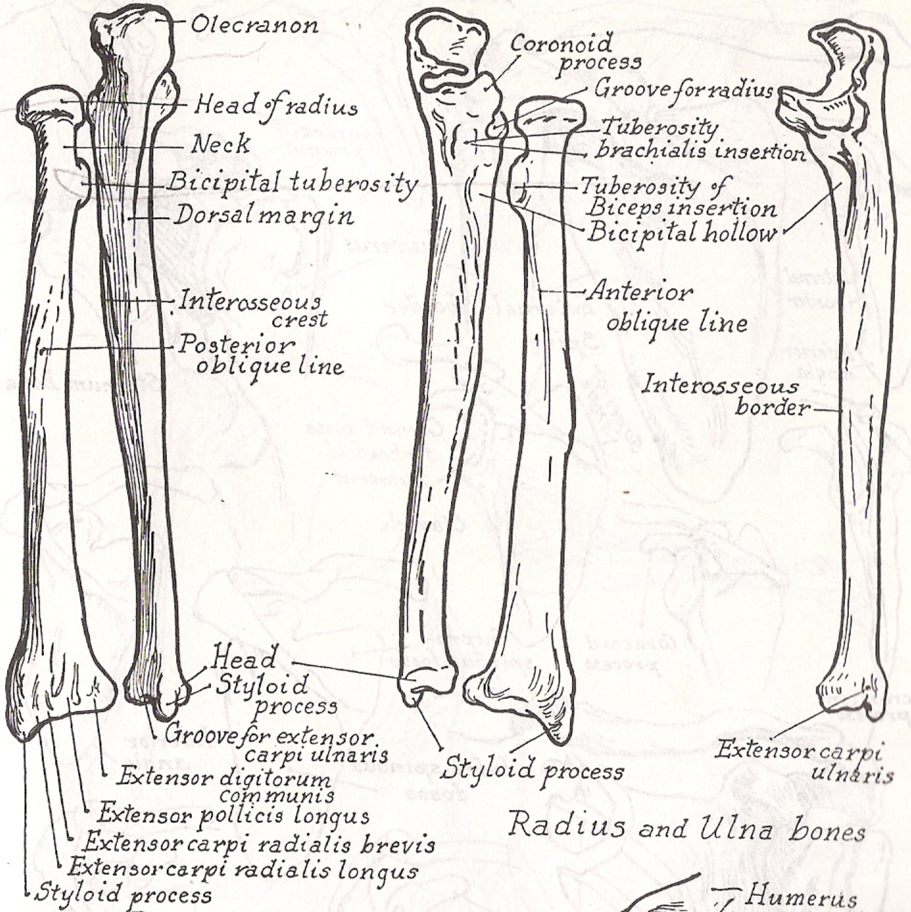

Humerus bone
Radius
Ulna
nner view
nner condyle


Coronoid fossa
Olecranon fossa
Inner condyle
Trochlea surface
nt view of humerus

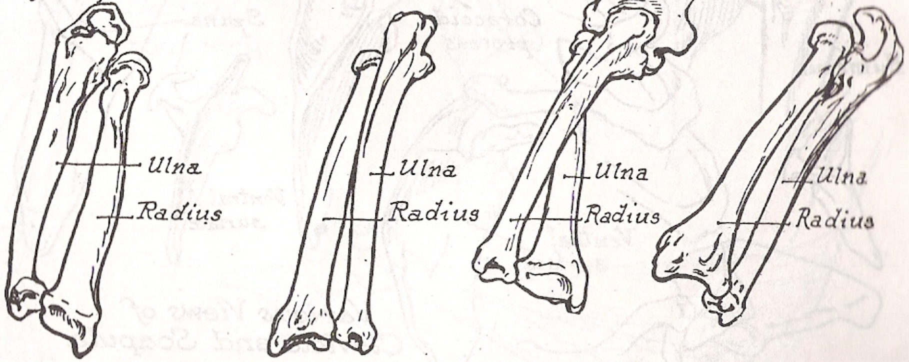

Epicondylic ridge
Capitellum
Trochlea
Outer view of humerus


Olecranon fossa
Inner condyle
Outer condyle
Trochlea
Back of humerus

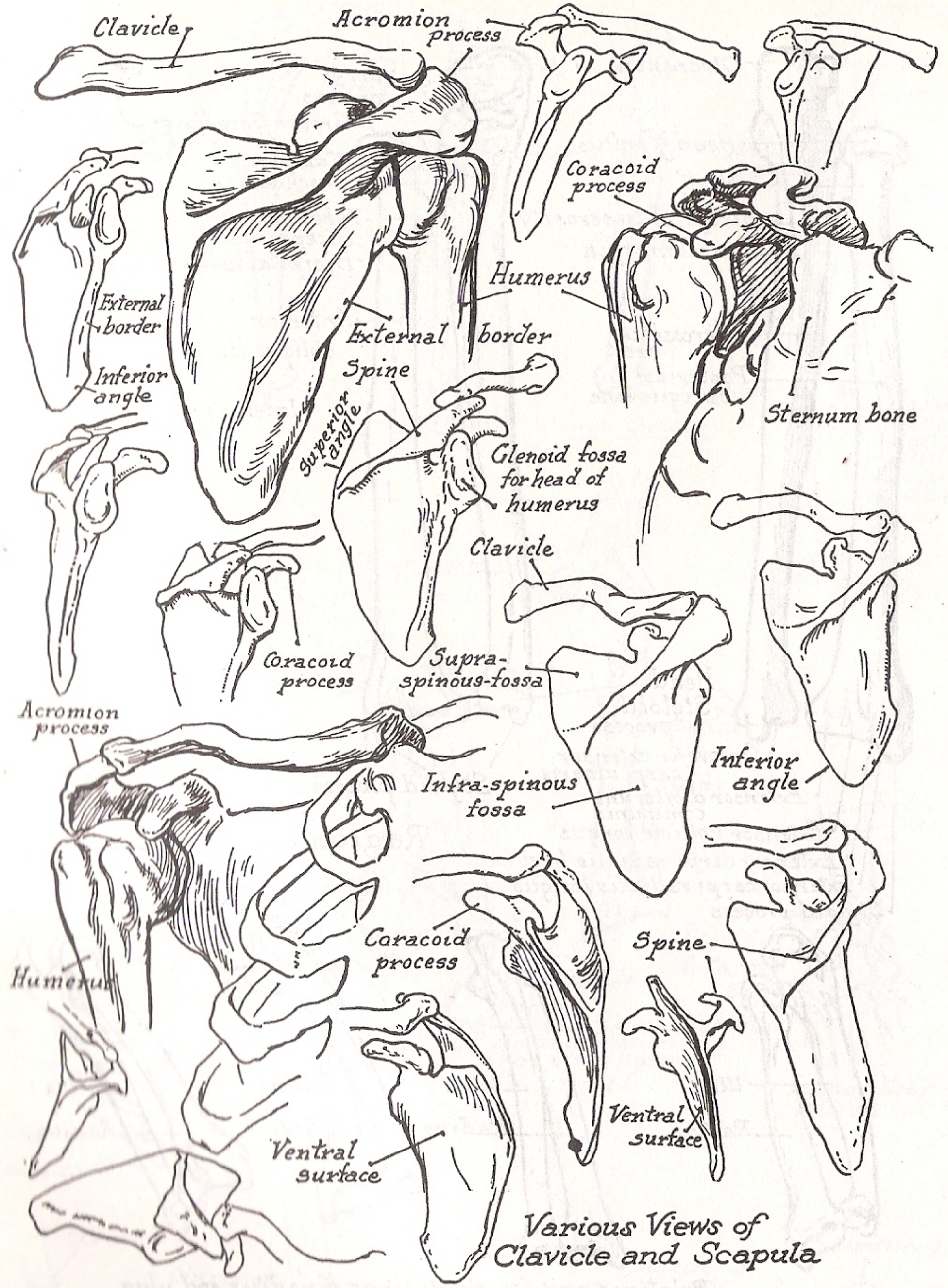

Capitellum
Trochlea
End view of humerus bone


Olecranon
Head of radius
Neck
Bicipital tuberosity
Dorsal margin
Interosseous crest
Posterior oblique line
Head
Styloid process
Groove for extensor carpi ulnaris
Extensor digitorum communis
Extensor pollicis longus
Extensor carpi radialis brevis
Extensor carpi radialis longus
Styloid process
Coronoid process
Groove for radius
Tuberosity brachialis insertion
Tuberosity of Biceps insertion
Bicipital hollow
Anterior oblique line
Interosseous border
Styloid process
Extensor carpi ulnaris

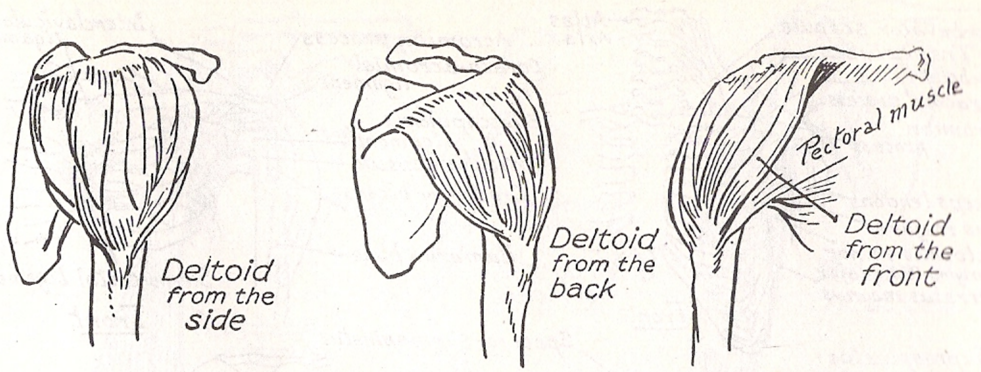
Radius and Ulna bones

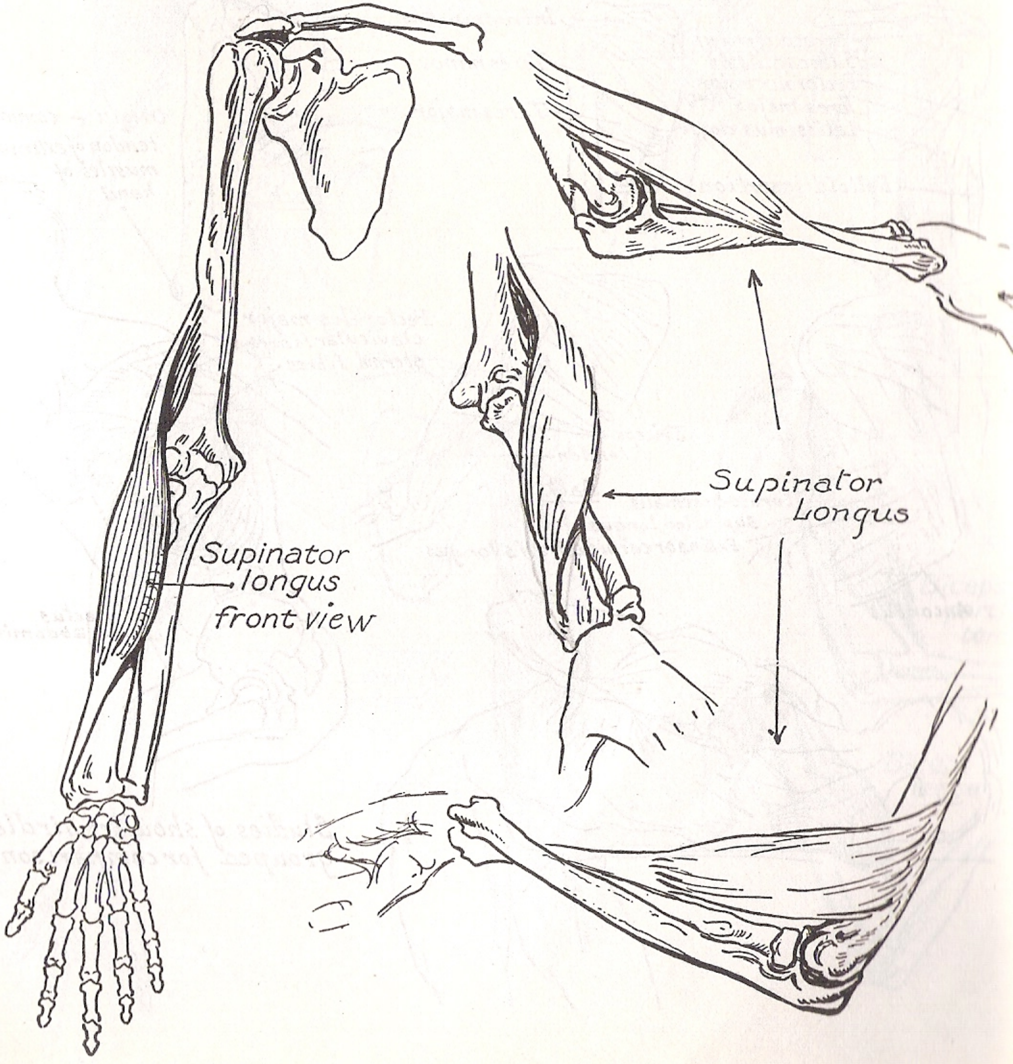

Humerus
Ulna
Radius
Ulna
Radius
Ulna
Radius
Ulna
Radius

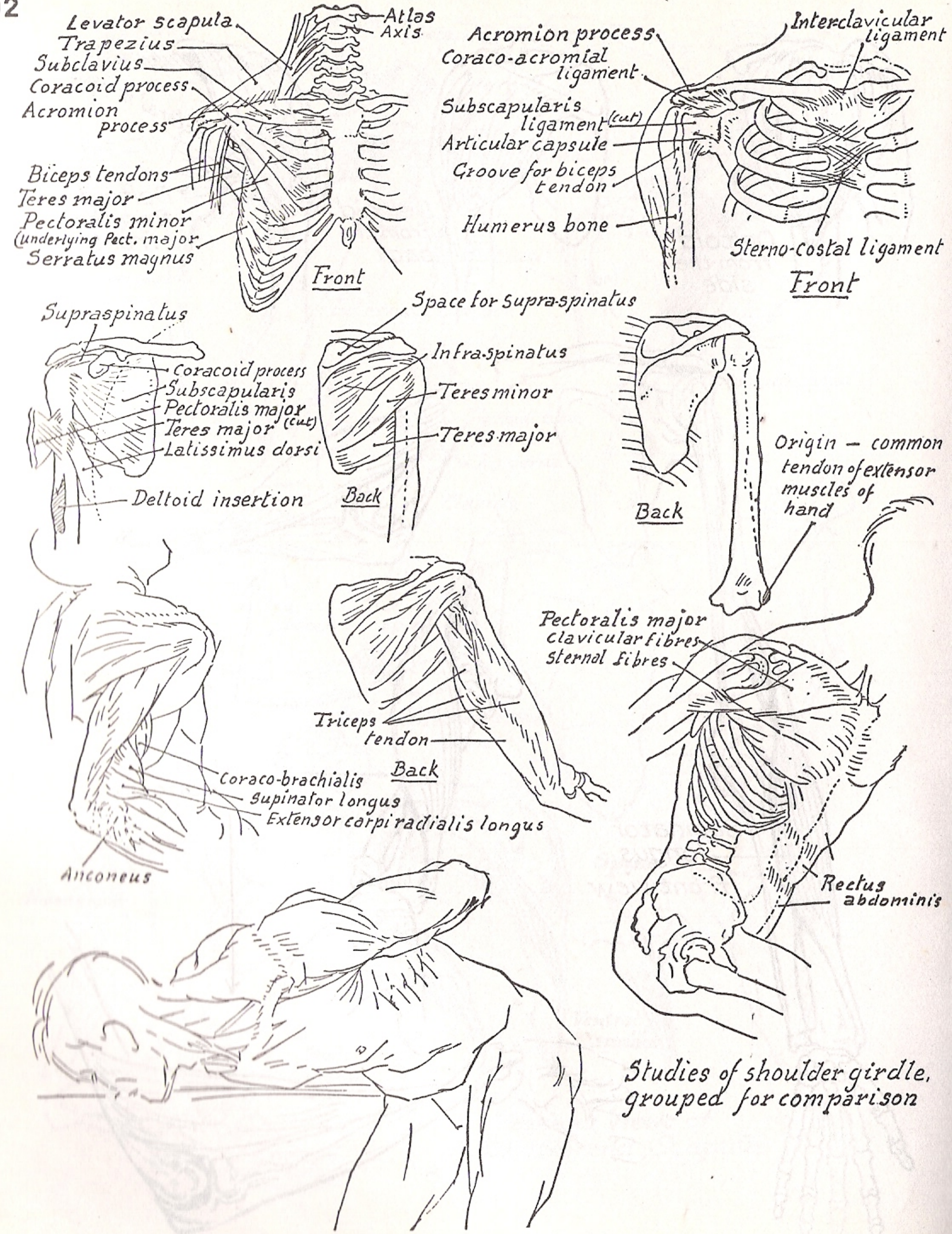
Relations and foreshortenings of radius and ulna


Clavicle
Acromion process
Coracoid process
Humerus
External border
Inferior angle
External border
Spine
Superior angle
Glenoid fossa for head of humerus
Sternum bone
Clavicle
Coracoid process
Supra-spinous-fossa
Acromion process
Infra-spinous fossa
Inferior angle
Coracoid process
Spine
Humerus
Ventral surface
Ventral surface

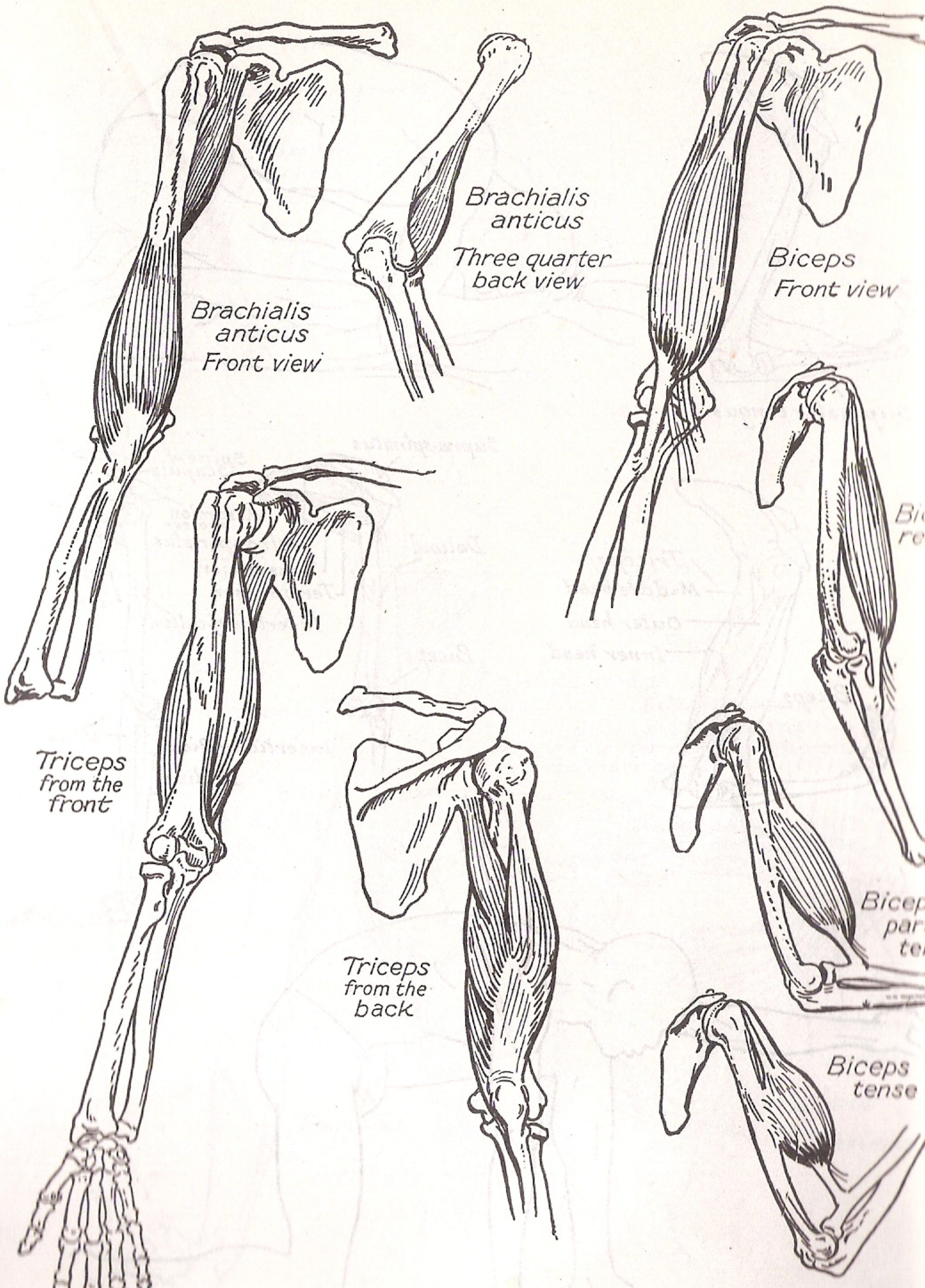
Various Views of Clavicle and Scapula

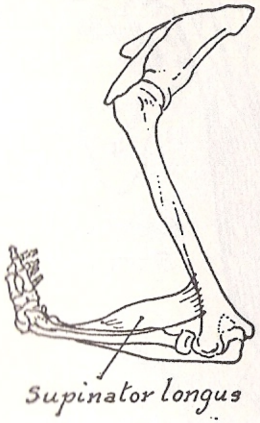

Deltoid from the side
Deltoid from the back
Pectoral muscle
Deltoid from the front

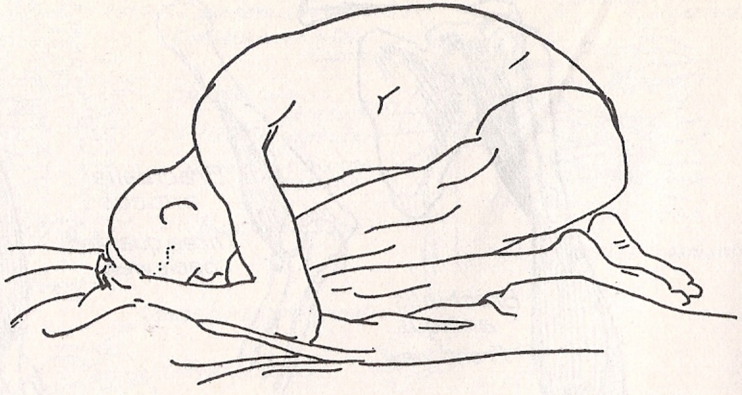

Supinator longus front view
Supinator Longus

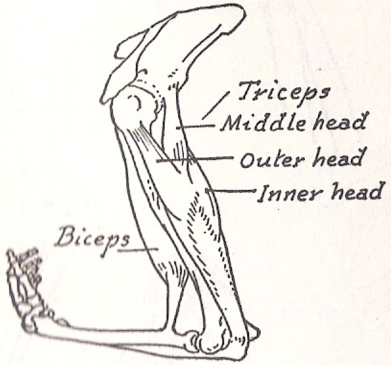

Levator scapula
Atlas
Axis
Trapezius
Subclavius
Coracoid process
Acromion process
Biceps tendons
Teres major
Pectoralis minor (Underlying Pect. major)
Serratus magnus
Front
Acromion process
Interclavicular ligament
Coraco-acromial ligament
Subscapularis ligament (cut)
Articular capsule
Groove for biceps tendon
Humerus bone
Sterno-costal ligament
Front
Supraspinatus
Coracoid proces
Subscapularis
Pectoralis major (cut)
Teres major
Latissimus dorsi
Deltoid insertion
Space for Supra-spinatus
Infra-spinatus
Teres minor
Teres major
Back
Back
Origin — common tendon of extensor muscles of hand
Pectoralis major
clavicular fibres
sternal fibres
Triceps tendon
Back
Coraco-brachialis
Supinator longus
Extensor carpi radialis longus
Anconeus
Rectus abdominis

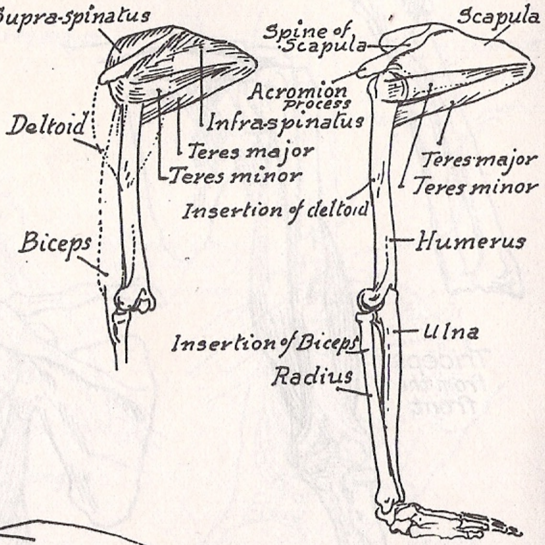
Studies of shoulder girdle, grouped for comparison

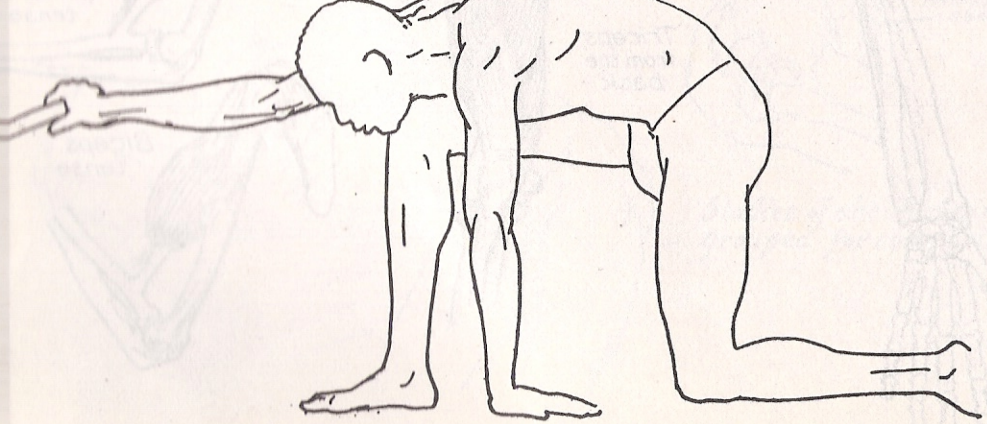

Brachialis anticus Front view
Brachialis anticus Three quarter back view
Biceps Front view
Bi
re
Triceps from the front
Triceps from the back
Bicep
par
te
Biceps tense

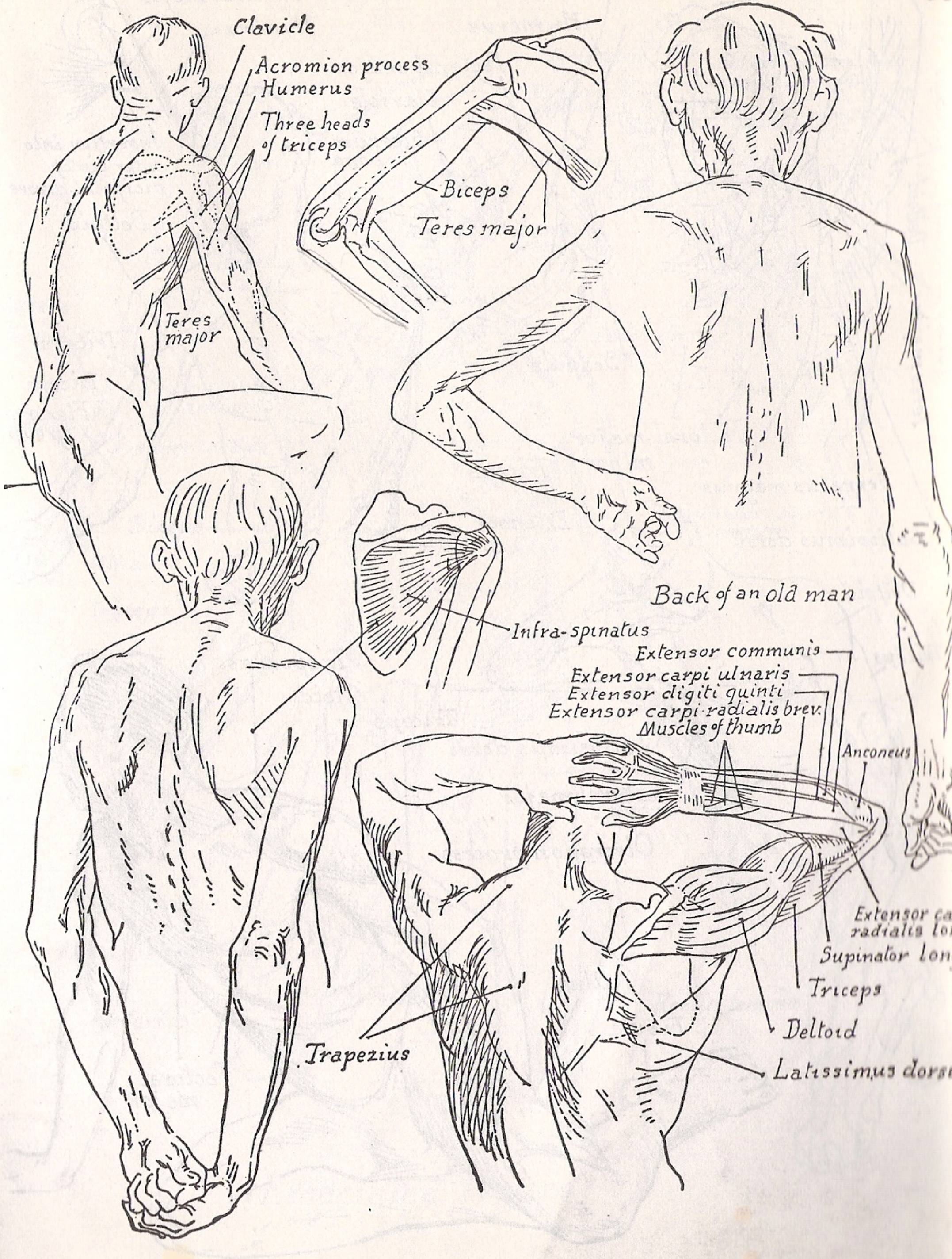

Supinator longus

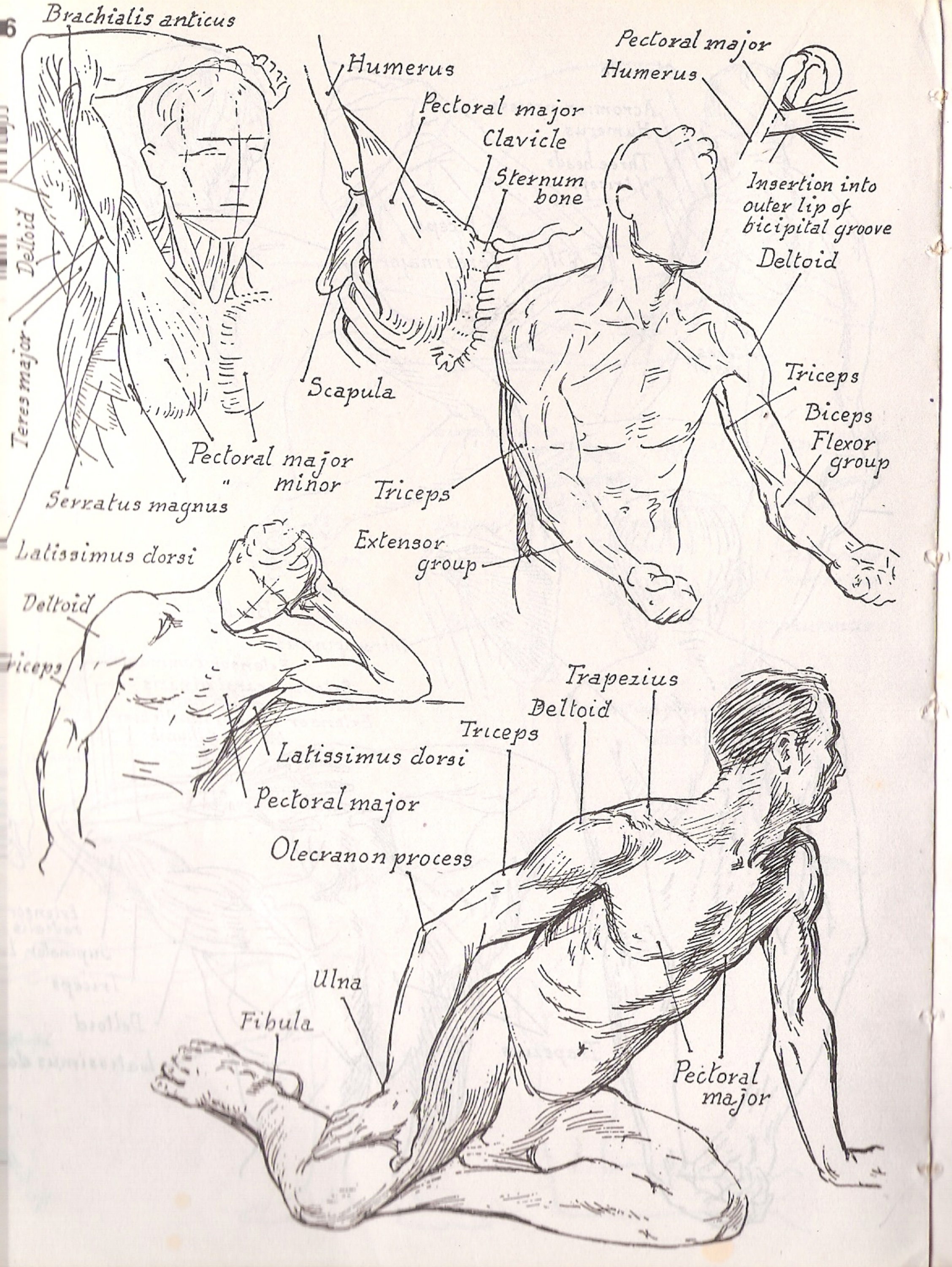


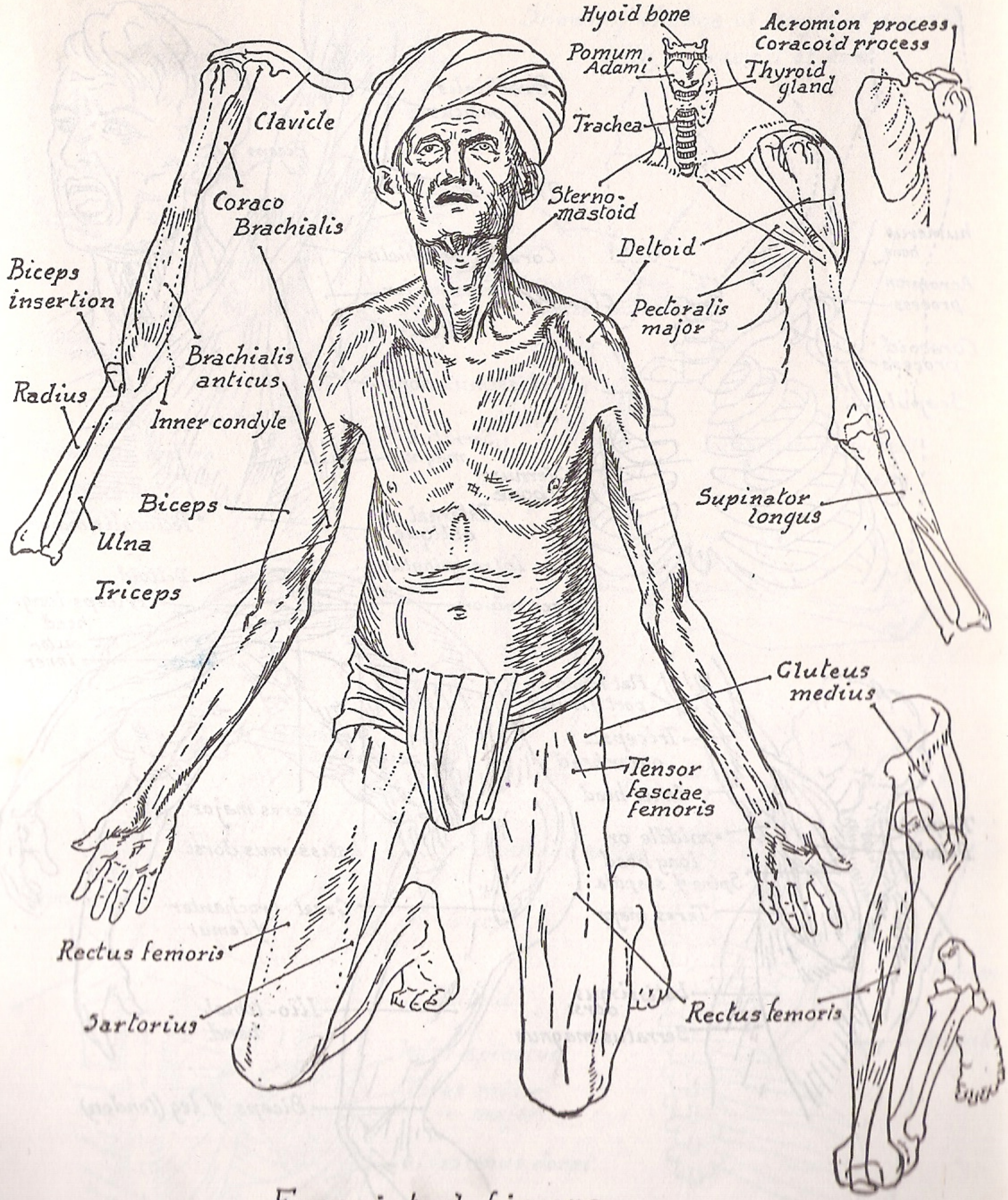

Triceps
Middle head
Outer head
Inner head
Biceps


Supra-spinatus
Deltoid
Infraspinatus
Teres major
Teres minor
Biceps
Spine of Scapula
Scapula
Acromion process
Teres major
Teres minor
Insertion of deltoid
Humerus
Ulna
Insertion of Biceps
Radius

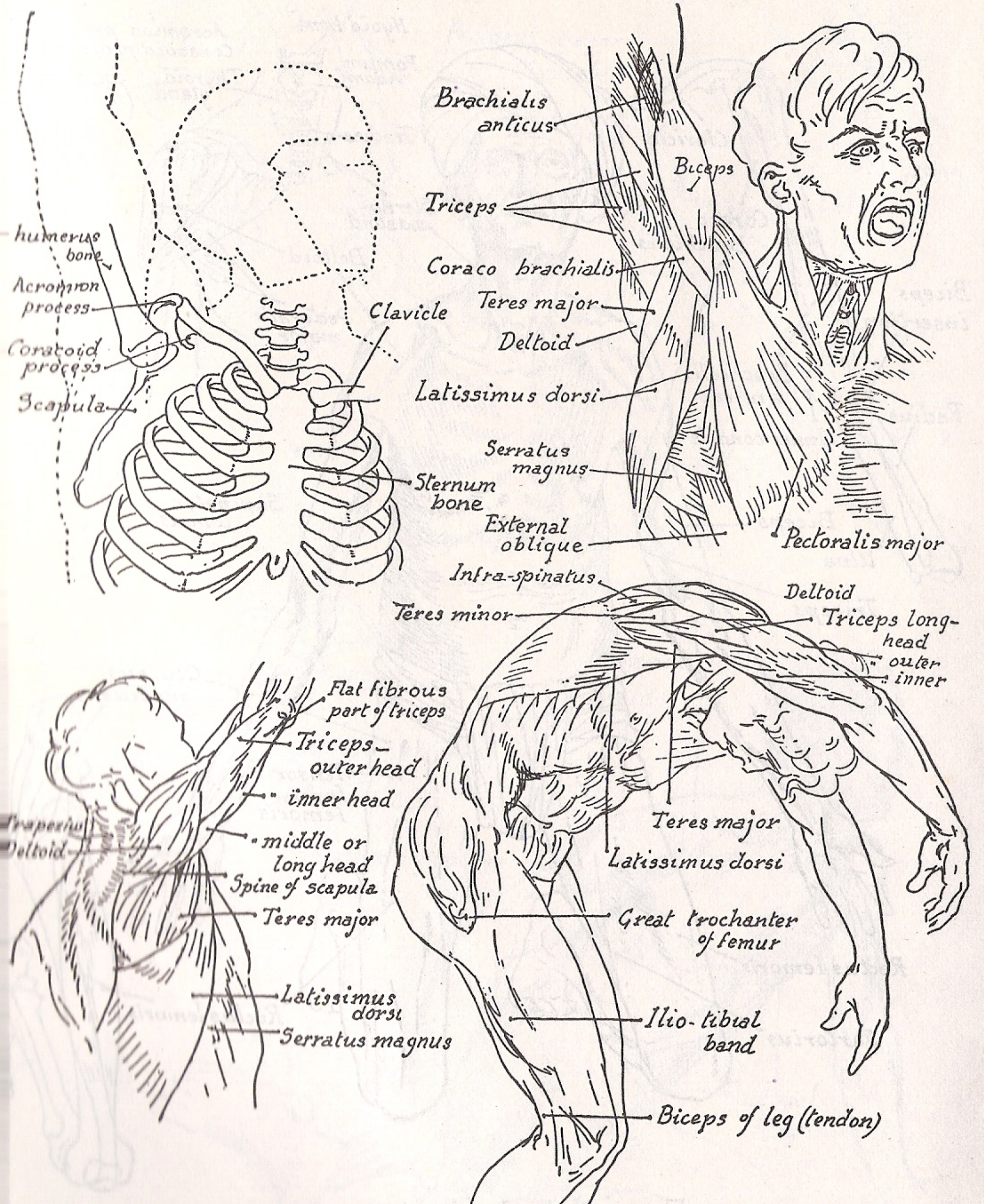



Clavicle
Acromion process
Humerus
Three heads of triceps
Teres major
Biceps
Teres major
Back of an old man
Infra-spinatus
Extensor communis
Extensor carpi ulnaris
Extensor digiti quinti
Extensor carpi radialis brev.
Muscles of thumb
Anconeus
Extensor ca
radialis lo
Supinator lon
Triceps
Deltoid
Latissimus dors
Trapezius

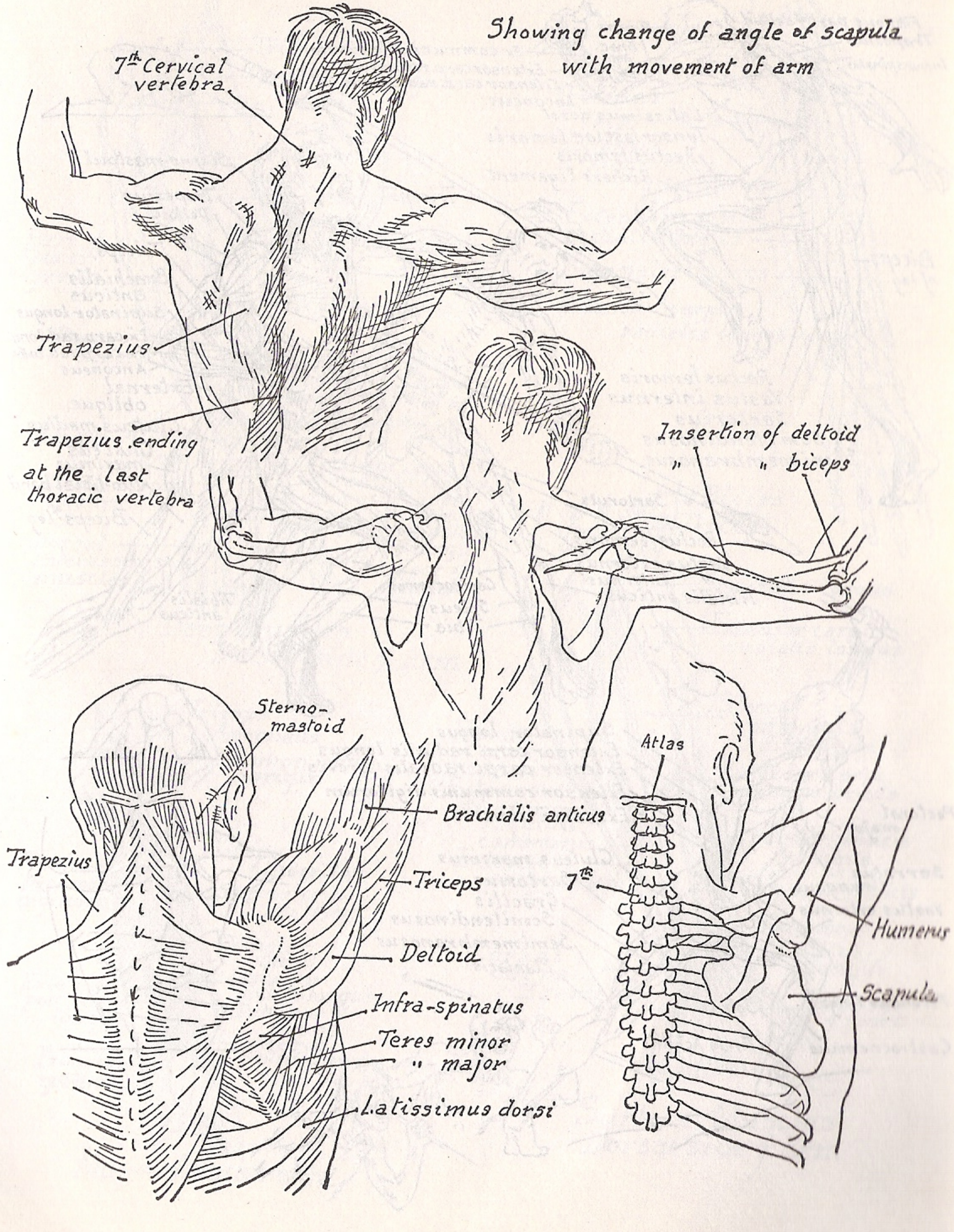

Brachialis anticus
Deltoid
Teres major
Humerus
Pectoral major
Clavicle
Sternum bone
Scapula
Pectoral major minor
Serratus magnus
Pectoral major
Humerus
Insertion into outer lip of bicipital groove
Deltoid
Triceps
Biceps
Flexor group
Triceps
Extensor group
Latissimus dorsi
Deltoid
Triceps
Latissimus dorsi
Pectoral major
Trapezius
Deltoid
Triceps
Olecranon process
Ulna
Fibula
Pectoral major

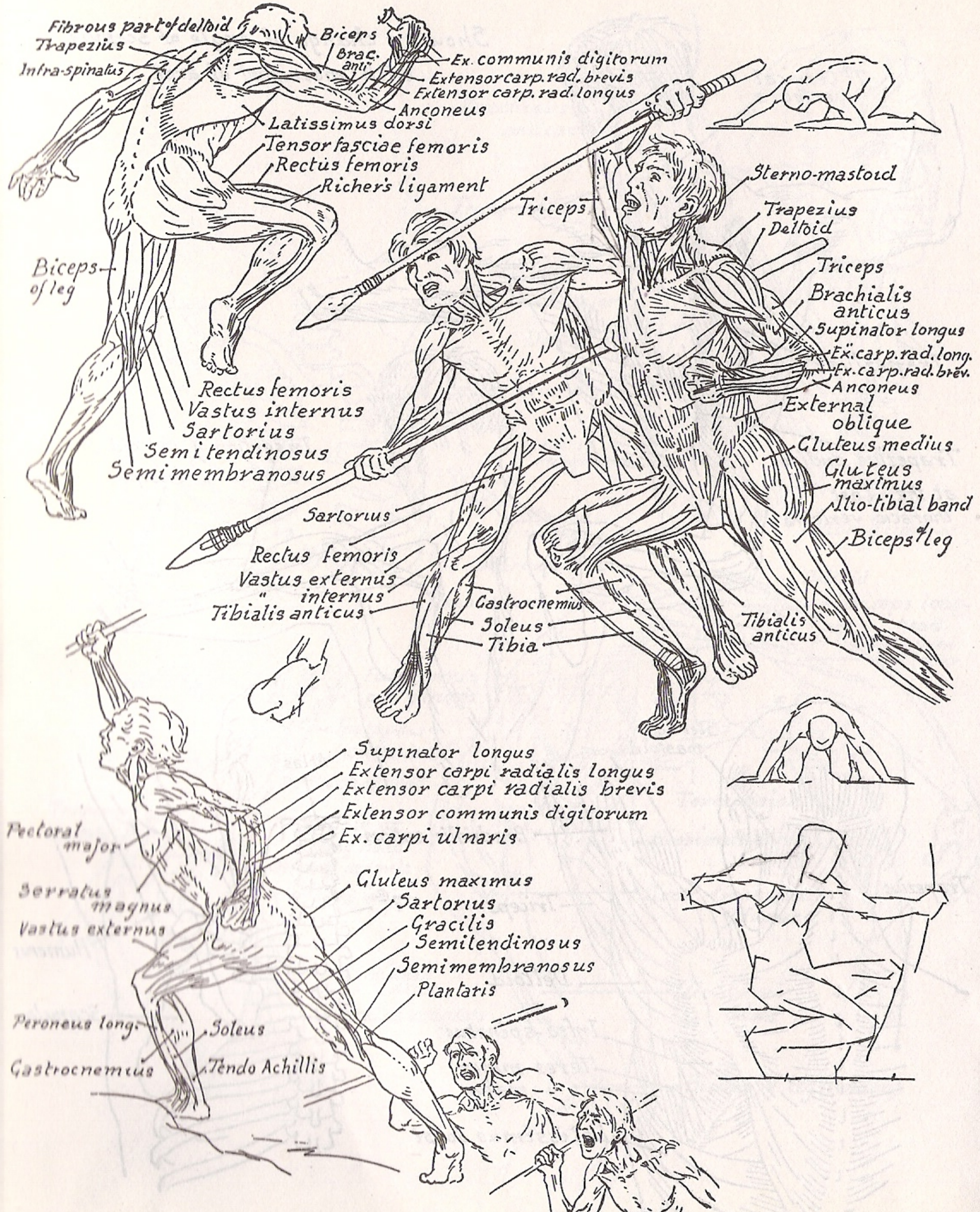

Hyoid bone
Acromion process
Coracoid process
Pomum Adami
Thyroid gland
Trachea
Clavicle
Coraco Brachialis
Sterno-mastoid
Deltoid
Biceps insertion
Pectoralis major
Brachialis anticus
Radius
Inner condyle
Supinator longus
Biceps
Ulna
Triceps
Gluteus medius
Tensor fasciae femoris
Rectus femoris
Sartorius
Rectus femoris

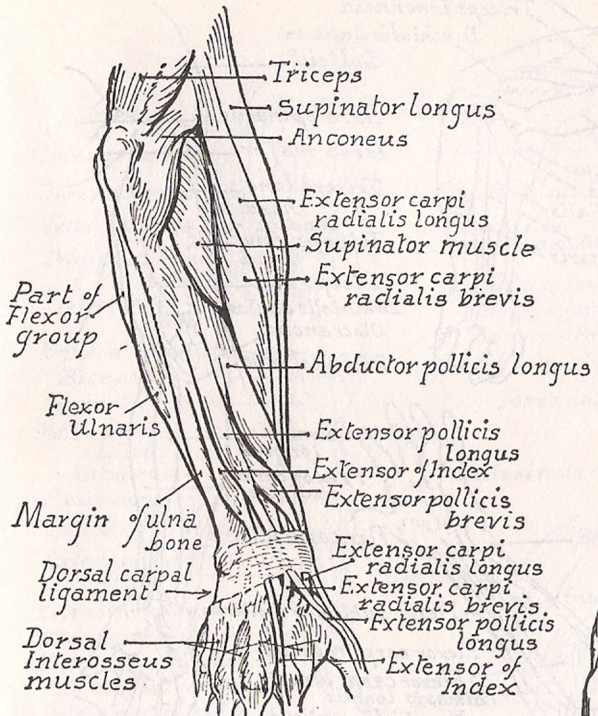
Emaciated figure


humerus bone
Acromion process
Coracoid process
Scapula
Clavicle
Sternum bone
Brachialis anticus
Biceps
Triceps
Coraco brachialis
Teres major
Deltoid
Latissimus dorsi
Serratus magnus
External oblique
Pectoralis major
Flat fibrous part of triceps
Triceps outer head
inner head
Trapezius
Deltoid
middle or long head
Spine of scapula
Teres major
Latissimus dorsi
Serratus magnus
Infra-spinatus
Teres minor
Deltoid
Triceps long-head
outer
inner
Teres major
Latissimus dorsi
Great trochanter of femur
Ilio-tibial band
Biceps of leg (tendon)

Showing change of angle of scapula with movement of arm


7th Cervical vertebra
Trapezius
Trapezius ending at the last thoracic vertebra
Insertion of deltoid
" " biceps
Sterno-mastoid
Trapezius
Brachialis anticus
Triceps
Deltoid
Infra-spinatus
Teres minor
" major
Latissimus dorsi
Atlas
7th
Humerus
Scapula


Fibrous part of deltoid
Trapezius
Infra-spinatus
Biceps
Brac. anti
Ex. communis digitorum
Extensor carp. rad. brevis
Extensor carp. rad. longus
Anconeus
Latissimus dorsi
Tensor fasciae femoris
Rectus femoris
Richer's ligament
Biceps of leg
Rectus femoris
Vastus internus
Sartorius
Semi tendinosus
Semi membranosus
Sterno-mastoid
Triceps
Trapezius
Deltoid
Triceps
Brachialis anticus
Supinator longus
Ex. carp. rad. long.
Ex. carp. rad. brev.
Anconeus
External oblique
Gluteus medius
Gluteus maximus
Ilio-tibial band
Biceps of leg
Sartorius
Rectus femoris
Vastus externus
" internus
Tibialis anticus
Gastrocnemius
Soleus
Tibia
Tibialis anticus
Supinator longus
Extensor carpi radialis longus
Extensor carpi radialis brevis
Extensor communis digitorum
Ex. carpi ulnaris
Pectoral major
Serratus magnus
Vastus externus
Gluteus maximus
Sartorius
Gracilis
Semitendinosus
Semimembranosus
Plantaris
Peroneus long.
Soleus
Gastrocnemius
Tendo Achillis


Triceps
Supinator longus
Anconeus
Extensor carpi radialis longus
Supinator muscle
Extensor carpi radialis brevis
Part of Flexor group
Abductor pollicis longus
Flexor Ulnaris
Extensor pollicis longus
Extensor of Index
Extensor pollicis brevis
Margin of ulna bone
Extensor carpi radialis longus
Dorsal carpal ligament
Extensor carpi radialis brevis
Extensor pollicis longus
Dorsal Interosseus muscles
Extensor of Index

Deep Muscles
Dorsal side of Arm

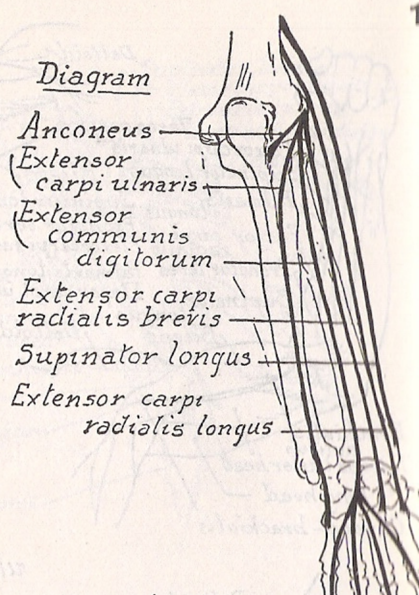
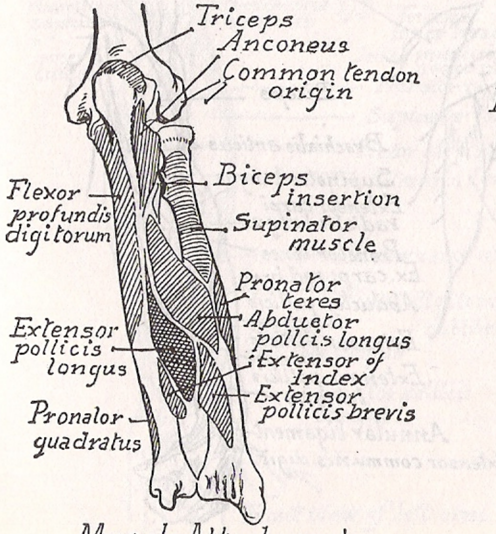
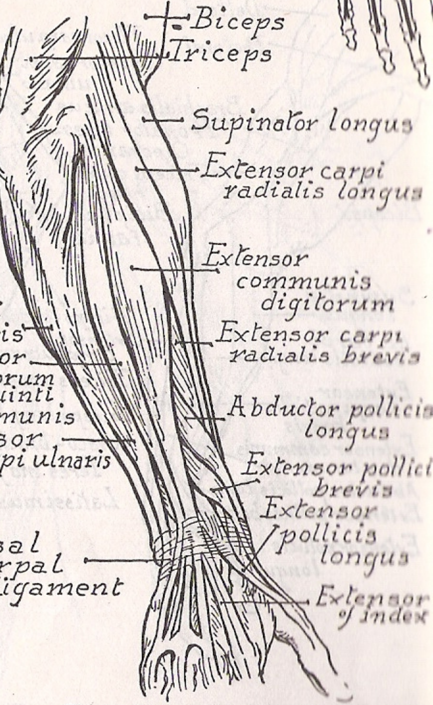


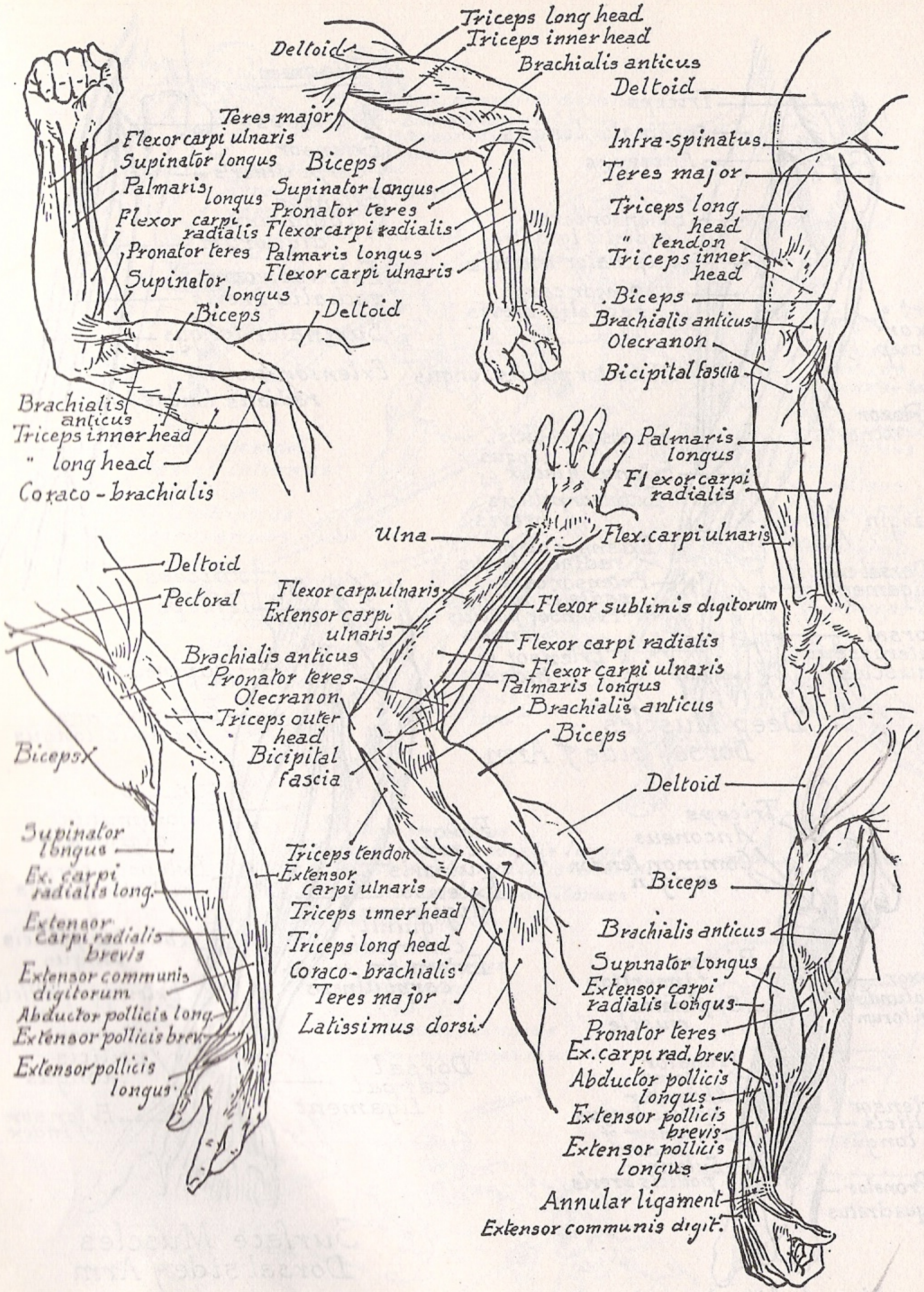
Diagram
Anconeus
Extensor carpi ulnaris
Extensor communis digitorum
Extensor carpi radialis brevis
Supinator longus
Extensor carpi radialis longus

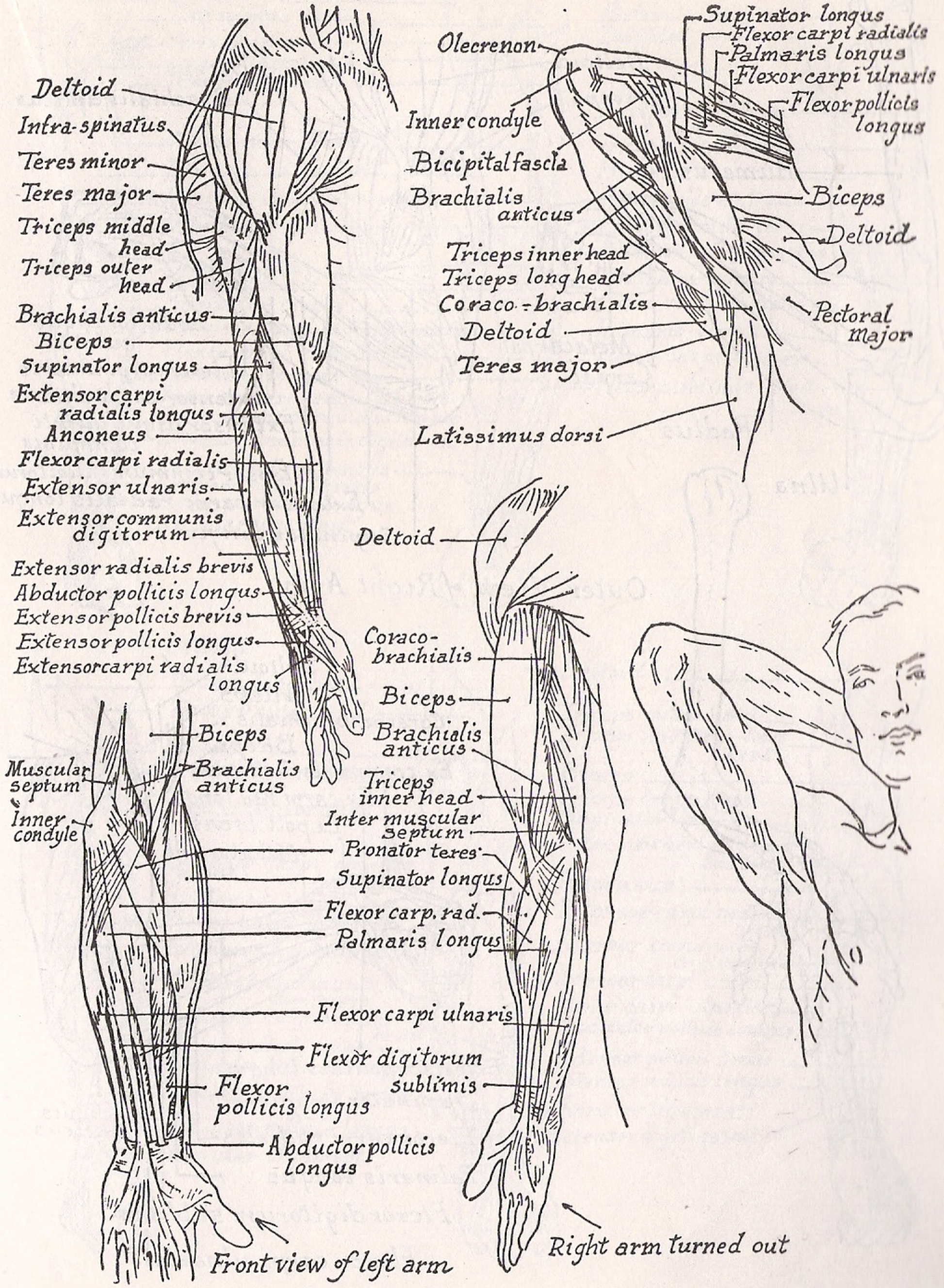

Triceps
Anconeus
Common tendon origin
Flexor profundis digitorum
Biceps insertion
Supinator muscle
Pronator teres
Abductor pollicis longus
Extensor pollicis longus
Extensor of Index
Extensor pollicis brevis
Pronator quadratus

Muscle Attachments


Biceps
Triceps
Supinator longus
Extensor carpi radialis longus
Extensor communis digitorum
Flexor carpi ulnaris
Extensor carpi radialis brevis
Extensor digitorum quinti communis
Abductor pollicis longus
Extensor carpi ulnaris
Extensor pollici brevis
Extensor pollicis longus
Dorsal carpal ligament
Extensor of index

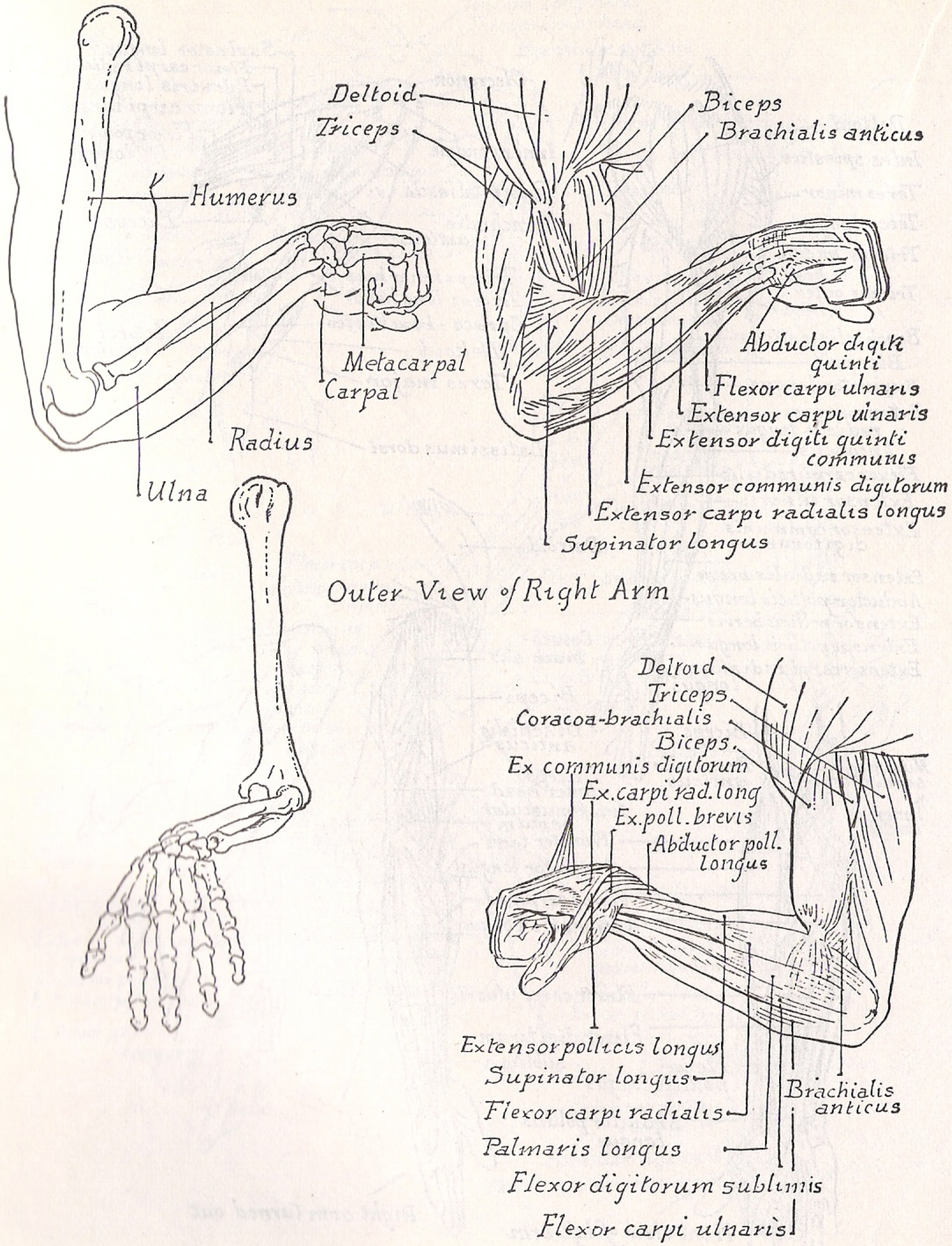
Surface Muscles
Dorsal side of Arm


Triceps long head
Triceps inner head
Deltoid
Brachialis anticus
Teres major
Biceps
Supinator longus
Pronator teres
Flexor carpi radialis
Palmaris longus
Flexor carpi ulnaris
Flexor carpi ulnaris
Supinator longus
Palmaris longus
Flexor carpi radialis
Pronator teres
Supinator longus
Biceps
Deltoid
Brachialis anticus
Triceps inner head
" long head
Coraco-brachialis
Deltoid
Infra-spinatus
Teres major
Triceps long head
" tendon
Triceps inner head
Biceps
Brachialis anticus
Olecranon
Bicipital fascia
Palmaris longus
Flexor carpi radialis
Flex. carpi ulnaris
Ulna
Flexor carp. ulnaris
Extensor carpi ulnaris
Flexor sublimis digitorum
Flexor carpi radialis
Flexor carpi ulnaris
Palmaris longus
Brachialis anticus
Biceps
Deltoid
Pectoral
Brachialis anticus
Pronator teres
Olecranon
Triceps outer head
Bicipital fascia
Biceps
Supinator longus
Ex. carpi radialis long.
Extensor carpi radialis brevis
Extensor communis digitorum
Abductor pollicis long.
Extensor pollicis brev.
Extensor pollicis longus
Triceps tendon
Extensor carpi ulnaris
Triceps inner head
Triceps long head
Coraco-brachialis
Teres major
Latissimus dorsi
Deltoid
Biceps
Brachialis anticus
Supinator longus
Extensor carpi radialis longus
Pronator teres
Ex. carpi rad. brev.
Abductor pollicis longus
Extensor pollicis brevis
Extensor pollicis longus
Annular ligament
Extensor communis digit.


Deltoid
Infra-spinatus
Teres minor
Teres major
Triceps middle head
Triceps outer head
Brachialis anticus
Biceps
Supinator longus
Extensor carpi radialis longus
Anconeus
Flexor carpi radialis
Extensor ulnaris
Extensor communis digitorum
Extensor radialis brevis
Abductor pollicis longus
Extensor pollicis brevis
Extensor pollicis longus
Extensor carpi radialis longus
Olecrenon
Supinator longus
Flexor carpi radialis
Palmaris longus
Flexor carpi ulnaris
Flexor pollicis longus
Inner condyle
Bicipital fascia
Brachialis anticus
Biceps
Deltoid
Triceps inner head
Triceps long head
Coraco-brachialis
Deltoid
Pectoral major
Teres major
Latissimus dorsi
Deltoid
Biceps
Muscular septum
Brachialis anticus
Inner condyle
Coraco-brachialis
Biceps
Brachialis anticus
Triceps inner head
Inter muscular septum
Pronator teres
Supinator longus
Flexor carp. rad.
Palmaris longus
Flexor carpi ulnaris
Flexor digitorum sublimis
Flexor pollicis longus
Abductor pollicis longus

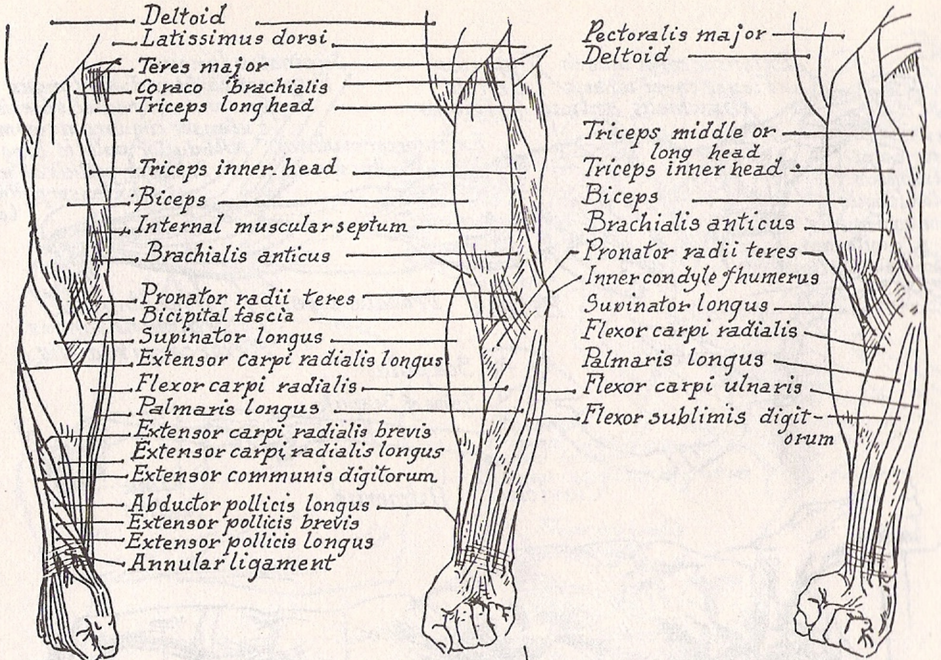
Front view of left arm

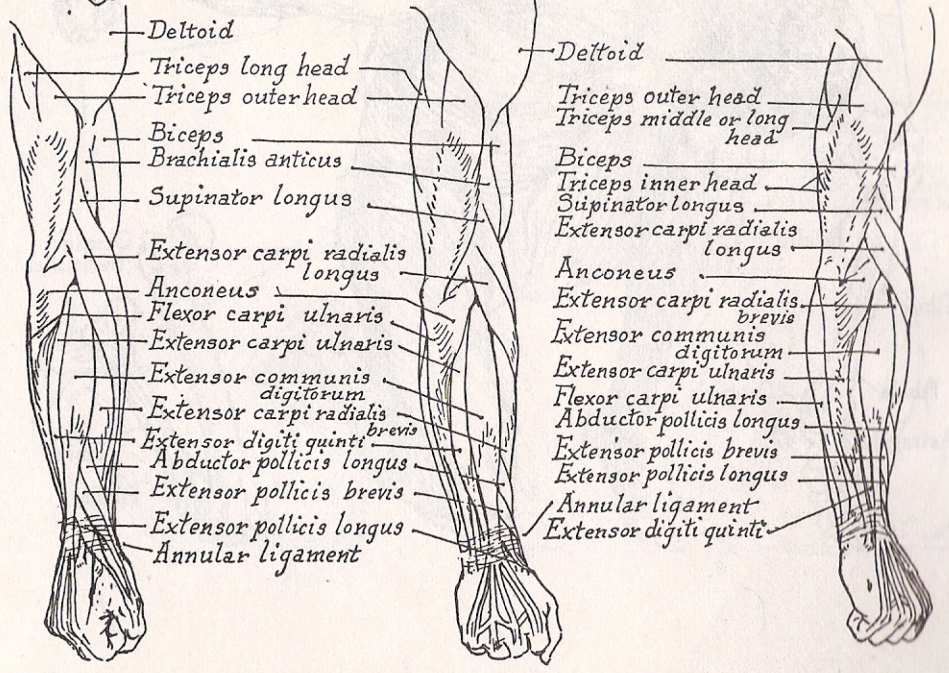
Right arm turned out

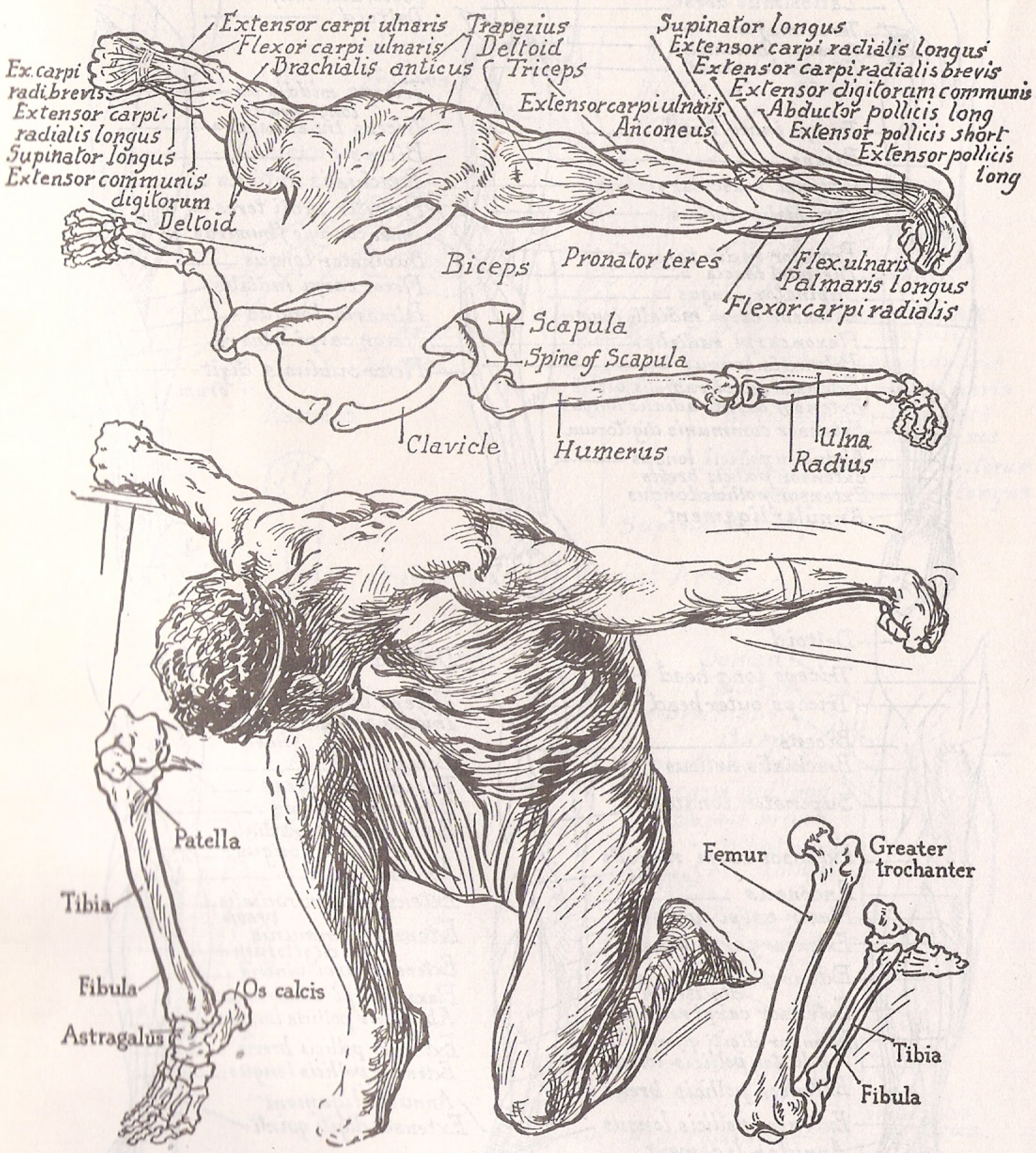

Humerus
Metacarpal
Carpal
Radius
Ulna
Deltoid
Triceps
Biceps
Brachialis anticus
Abductor digiti quinti
Flexor carpi ulnaris
Extensor carpi ulnaris
Extensor digiti quinti communis
Extensor communis digitorum
Extensor carpi radialis longus
Supinator longus
Deltoid
Triceps
Coracoa-brachialis
Biceps
Ex communis digitorum
Ex. carpi rad. long
Ex. poll. brevis
Abductor poll. longus
Extensor pollicis longus
Supinator longus
Flexor carpi radialis
Palmaris longus
Flexor digitorum sublimis
Flexor carpi ulnaris
Brachialis anticus

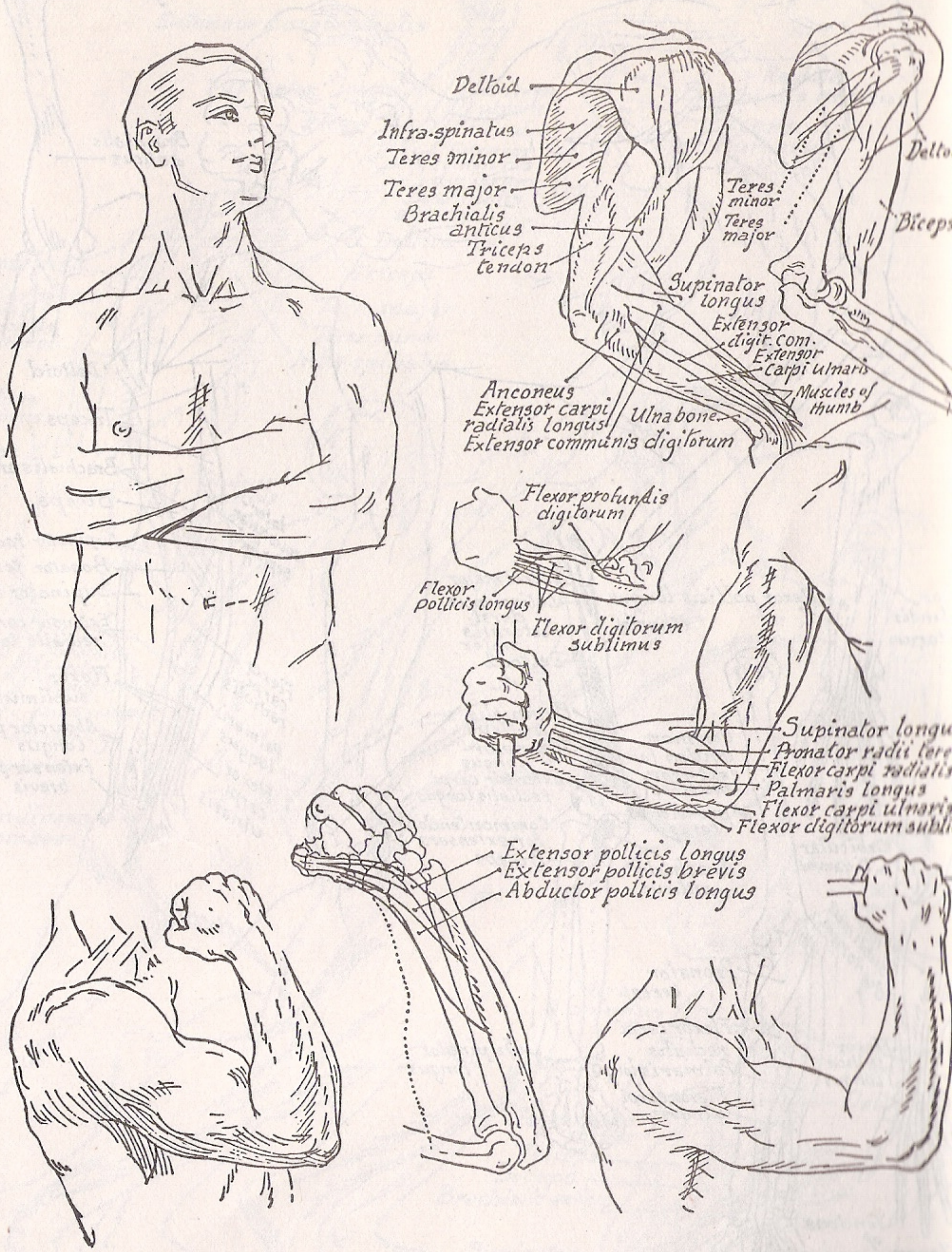
Outer View of Right Arm

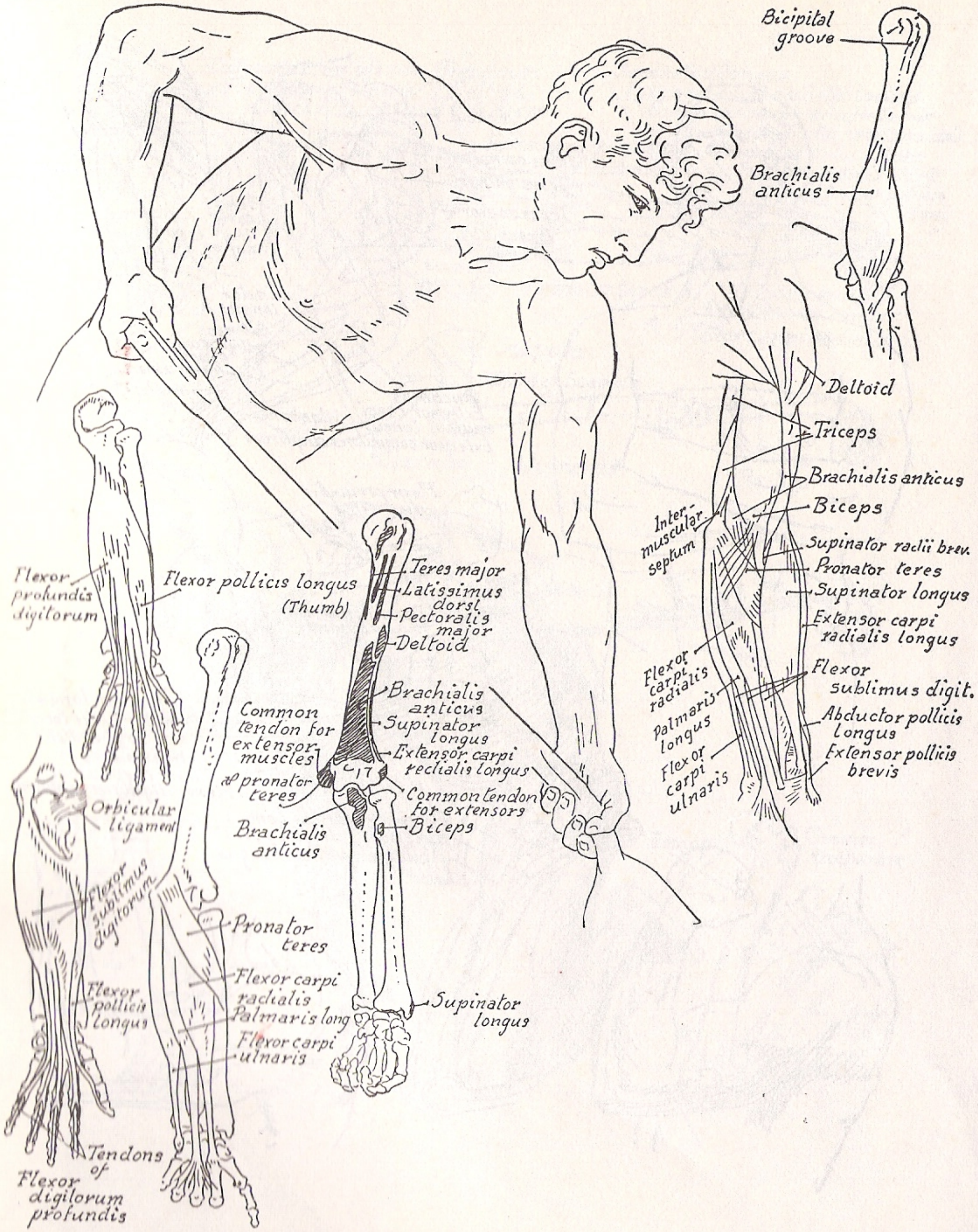
Inner view

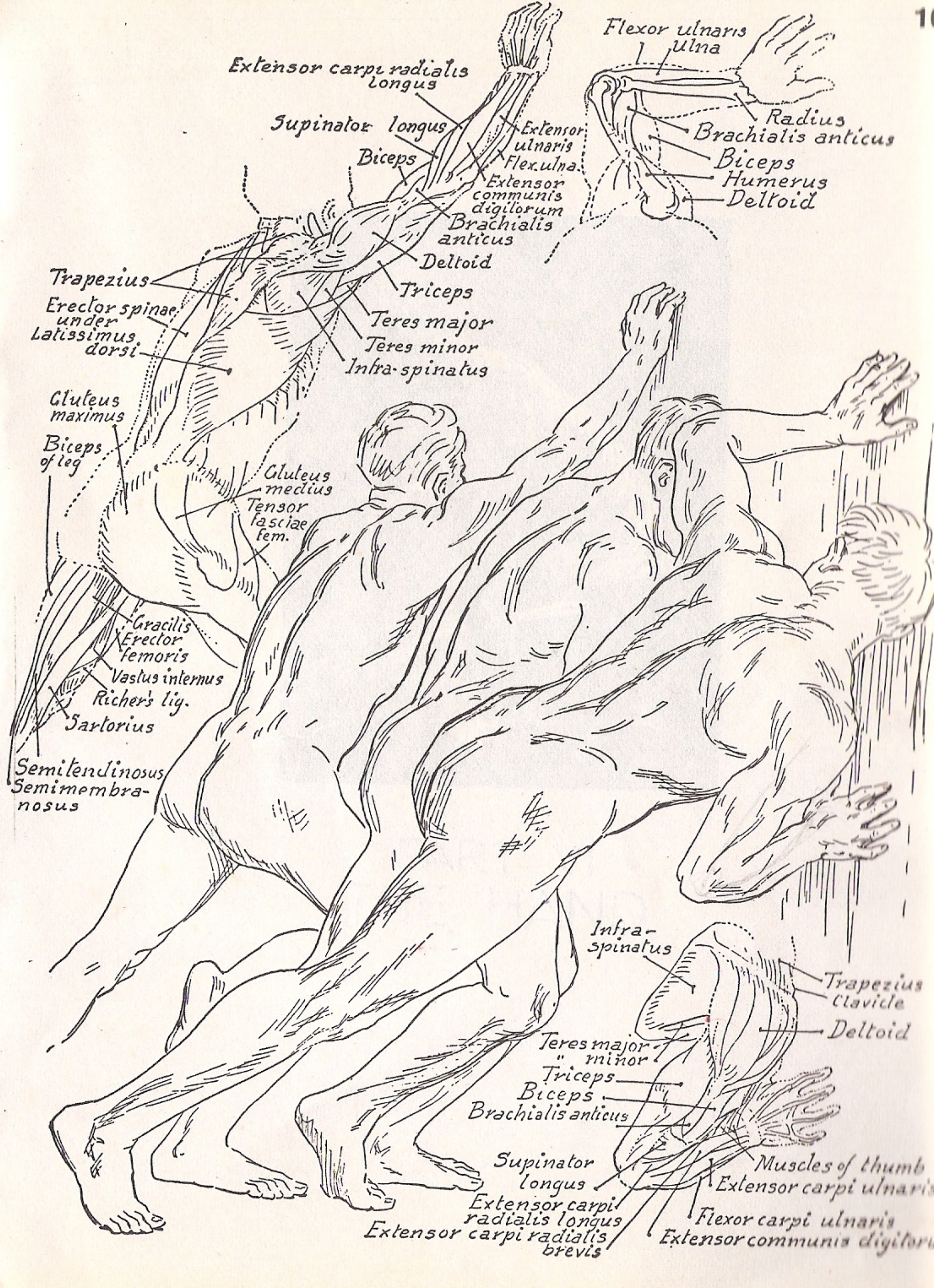

Deltoid
Latissimus dorsi
Teres major
Coraco brachialis
Triceps long head
Triceps inner head
Biceps
Internal muscular septum
Brachialis anticus
Pronator radii teres
Bicipital fascia
Supinator longus
Extensor carpi radialis longus
Flexor carpi radialis
Palmaris longus
Extensor carpi radialis brevis
Extensor carpi radialis longus
Extensor communis digitorum
Abductor pollicis longus
Extensor pollicis brevis
Extensor pollicis longus
Annular ligament
Pectoralis major
Deltoid
Triceps middle or long head
Triceps inner head
Biceps
Brachialis anticus
Pronator radii teres
Inner condyle of humerus
Supinator longus
Flexor carpi radialis
Palmaris longus
Flexor carpi ulnaris
Flexor sublimis digitorum

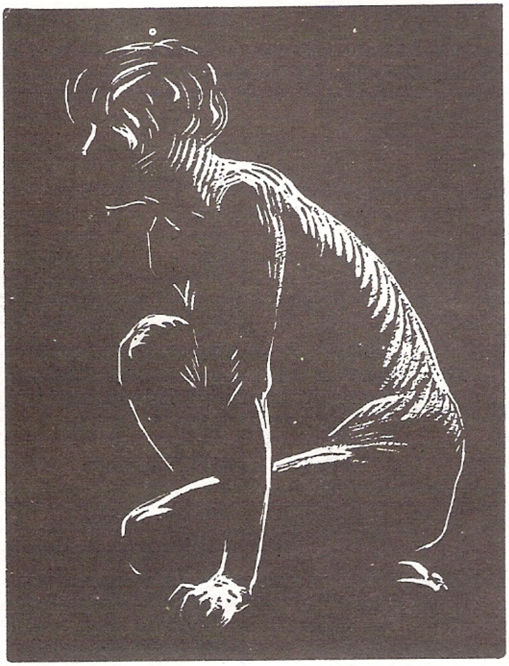

Deltoid
Triceps long head
Triceps outer head
Biceps
Brachialis anticus
Supinator longus
Extensor carpi radialis longus
Anconeus
Flexor carpi ulnaris
Extensor carpi ulnaris
Extensor communis digitorum
Extensor carpi radialis brevis
Extensor digiti quinti
Abductor pollicis longus
Extensor pollicis brevis
Extensor pollicis longus
Annular ligament
Deltoid
Triceps outer head
Triceps middle or long head
Biceps
Triceps inner head
Supinator longus
Extensor carpi radialis longus
Anconeus
Extensor carpi radialis brevis
Extensor communis digitorum
Extensor carpi ulnaris
Flexor carpi ulnaris
Abductor pollicis longus
Extensor pollicis brevis
Extensor pollicis longus
Annular ligament
Extensor digiti quinti


Extensor carpi ulnaris
Flexor carpi ulnaris
Trapezius
Deltoid
Brachialis anticus
Triceps
Ex. carpi radi. brevis
Extensor carpi radialis longus
Supinator longus
Extensor communis digitorum
Deltoid
Biceps
Supinator longus
Extensor carpi radialis longus
Extensor carpi radialis brevis
Extensor digitorum communis
Extensor carpi ulnaris
Abductor pollicis long
Anconeus
Extensor pollicis short
Extensor pollicis long
Pronator teres
Flex. ulnaris
Palmaris longus
Flexor carpi radialis
Scapula
Spine of Scapula
Clavicle
Humerus
Ulna
Radius
Patella
Tibia
Fibula
Os calcis
Astragalus
Femur
Greater trochanter
Tibia
Fibula


Deltoid
Infra-spinatus
Teres minor
Teres major
Brachialis anticus
Triceps tendon
Teres minor
Teres major
Delto
Biceps
Supinator longus
Extensor digit. com.
Extensor carpi ulnaris
Muscles of thumb
Anconeus
Extensor carpi radialis longus
Ulna bone
Extensor communis digitorum
Flexor profundis digitorum
Flexor pollicis longus
Flexor digitorum sublimus
Supinator longu
Pronator radii tere
Flexor carpi radialis
Palmaris longus
Flexor carpi ulnaris
Flexor digitorum subli
Extensor pollicis longus
Extensor pollicis brevis
Abductor pollicis longus

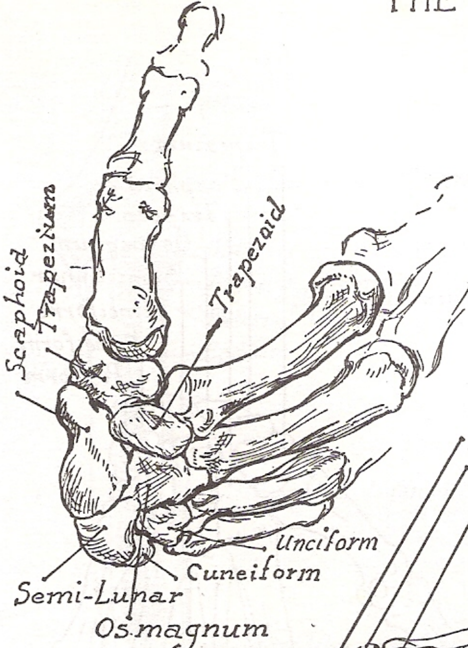

Bicipital groove
Brachialis anticus
Deltoid
Triceps
Brachialis anticus
Biceps
Inter-muscular septum
Supinator radii brev.
Pronator teres
Supinator longus
Extensor carpi radialis longus
Flexor carpi radialis
Palmaris longus
Flexor carpi ulnaris
Flexor sublimus digit.
Abductor pollicis longus
Extensor pollicis brevis
Flexor profundis digitorum
Flexor pollicis longus (Thumb)
Teres major
Latissimus dorsi
Pectoralis major
Deltoid
Brachialis anticus
Supinator longus
Extensor carpi radialis longus
Common tendon for extensors
Biceps
Common tendon for extensor muscles & pronator teres
Brachialis anticus
Supinator longus
Orbicular ligament
Flexor sublimus digitorum
Flexor pollicis longus
Pronator teres
Flexor carpi radialis
Palmaris long
Flexor carpi ulnaris
Tendons of Flexor digilorum profundis

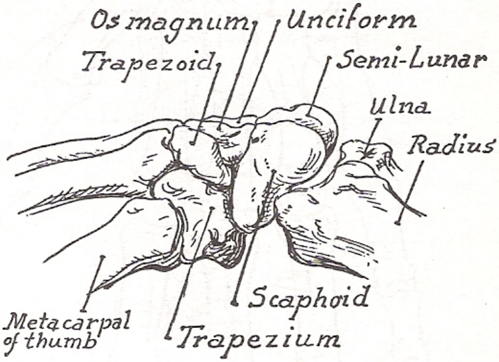

Extensor carpi radialis longus
Supinator longus
Biceps
Extensor ulnaris
Flex. ulna.
Extensor communis digitorum
Brachialis anticus
Deltoid
Triceps
Teres major
Teres minor
Infra-spinatus
Trapezius
Erector spinae under Latissimus dorsi
Gluteus maximus
Biceps of leg
Gluteus medius
Tensor fasciae fem.
Gracilis
Erector femoris
Vastus internus
Richer's lig.
Sartorius
Semitendinosus
Semimembranosus
Flexor ulnaris
Ulna
Radius
Brachialis anticus
Biceps
Humerus
Deltoid
Infra-spinatus
Trapezius
Clavicle
Deltoid
Teres major
" minor
Triceps
Biceps
Brachialis anticus
Supinator longus
Extensor carpi radialis longus
Extensor carpi radialis brevis
Muscles of thumb
Extensor carpi ulnaris
Flexor carpi ulnaris
Extensor communis digitoru

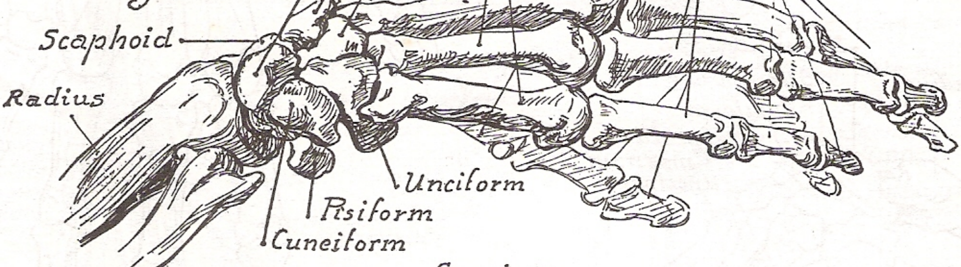


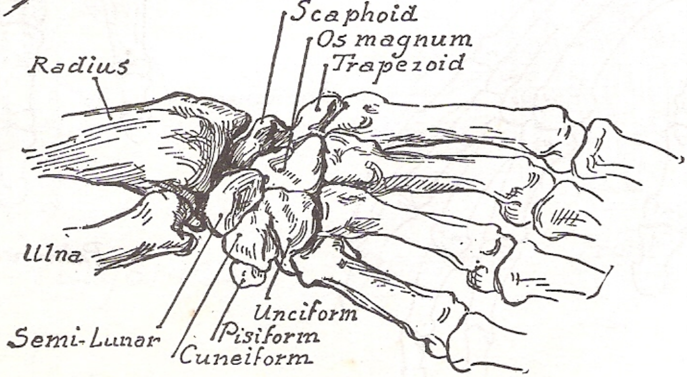
PART VI
THE HAND

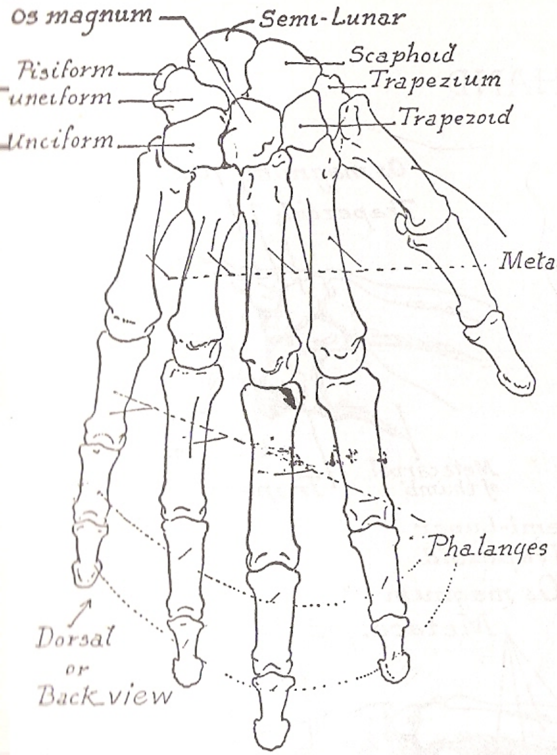
THE HAND

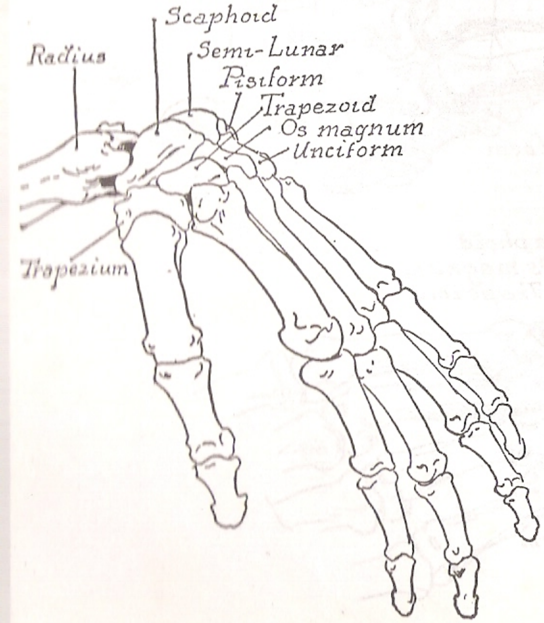

Scaphoid
Trapezium
Trapezoid
Unciform
Cuneiform
Semi-Lunar
Os magnum

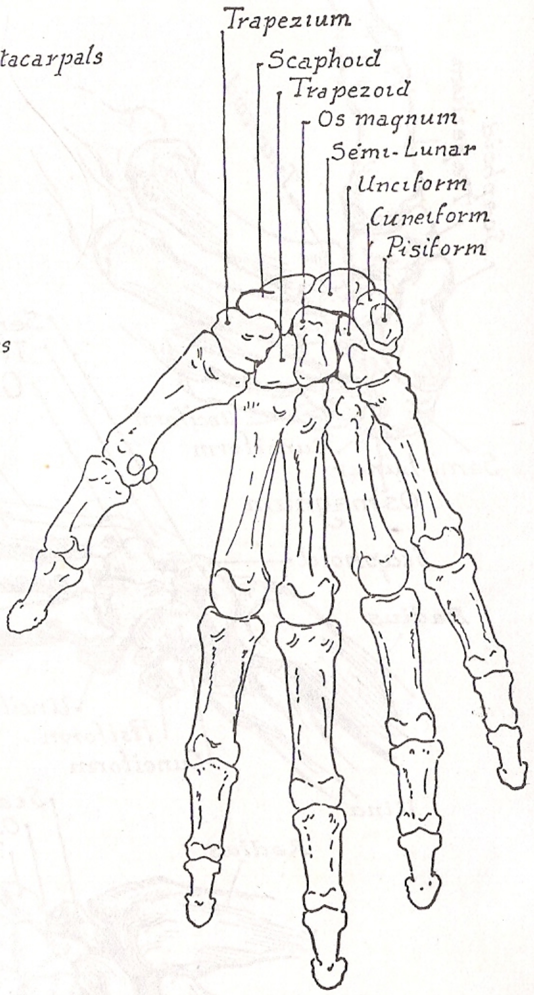

Os magnum
Unciform
Trapezoid
Semi-Lunar
Ulna
Radius
Scaphoid
Metacarpal of thumb
Trapezium


Semi-Lunar
Trapezoid
Os magnum
Metacarpal bones
Phalanges
Scaphoid
Radius
Unciform
Pisiform
Cuneiform
Ulna

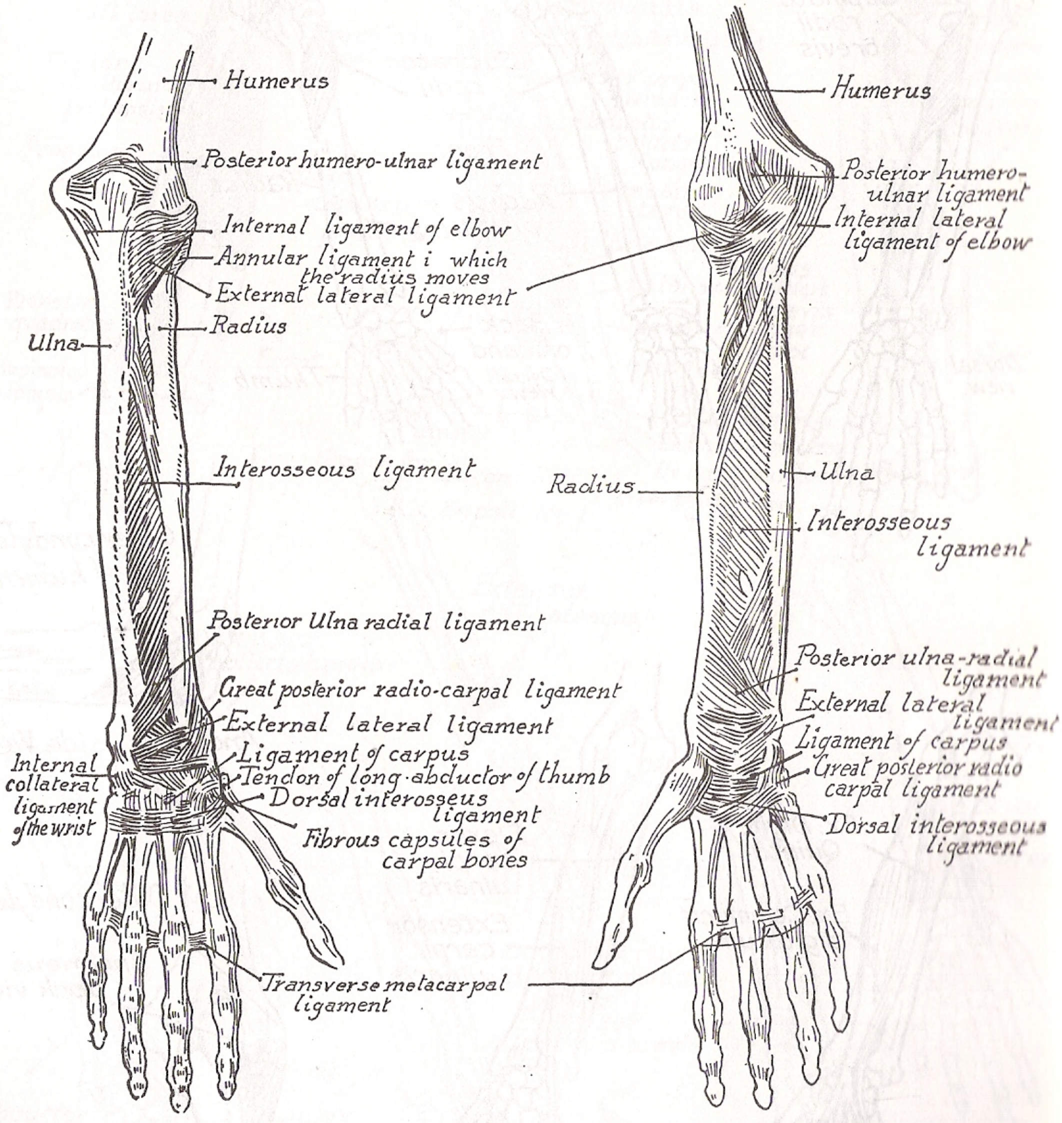

Scaphoid
Os magnum
Trapezoid
Radius
Ulna
Unciform
Pisiform
Semi-Lunar
Cuneiform


Os magnum
Semi-Lunar
Scaphoid
Pisiform
Cuneiform
Trapezium
Trapezoid
Unciform
Metacarpals
Phalanges
Dorsal or Back view

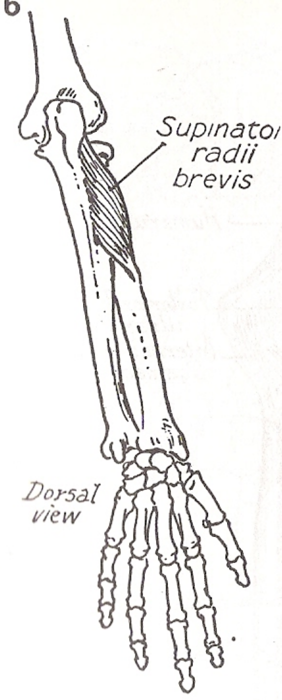

Scaphoid
Radius
Semi-Lunar
Pisiform
Trapezoid
Os magnum
Unciform
Trapezium

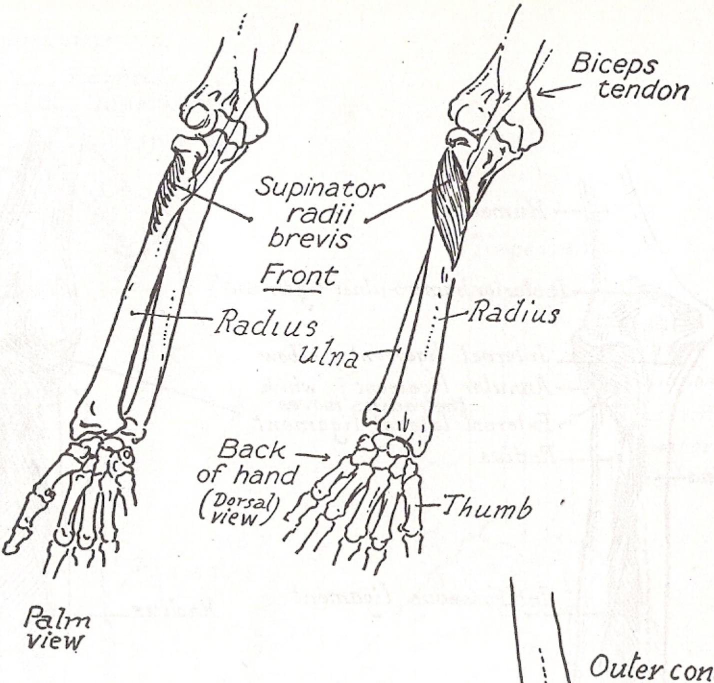

Trapezium
Scaphoid
Trapezoid
Os magnum
Semi-Lunar
Unciform
Cuneiform
Pisiform

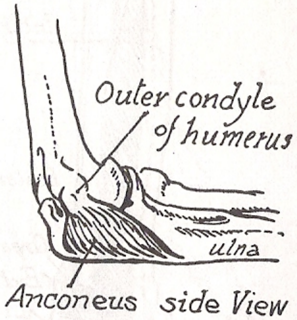
Palm view

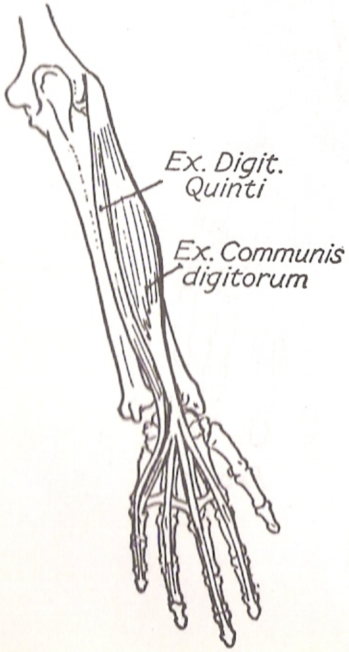

Humerus
Posterior humero-ulnar ligament
Internal ligament of elbow
Annular ligament i which the radius moves
External lateral ligament
Ulna
Radius
Interosseous ligament
Posterior Ulna radial ligament
Great posterior radio-carpal ligament
External lateral ligament
Internal collateral ligament of the wrist
Ligament of carpus
Tendon of long abductor of thumb
Dorsal interosseus ligament
Fibrous capsules of carpal bones
Transverse metacarpal ligament
Humerus
Posterior humero-ulnar ligament
Internal lateral ligament of elbow
Radius
Ulna
Interosseous ligament
Posterior ulna-radial ligament
External lateral ligament
Ligament of carpus
Great posterior radio carpal ligament
Dorsal interosseous ligament

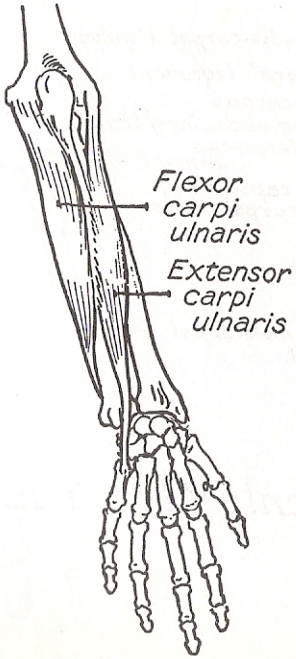
Back Ligaments of Forearm Front

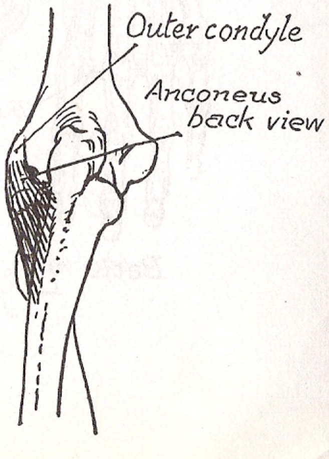

Supinator radii brevis
Dorsal view

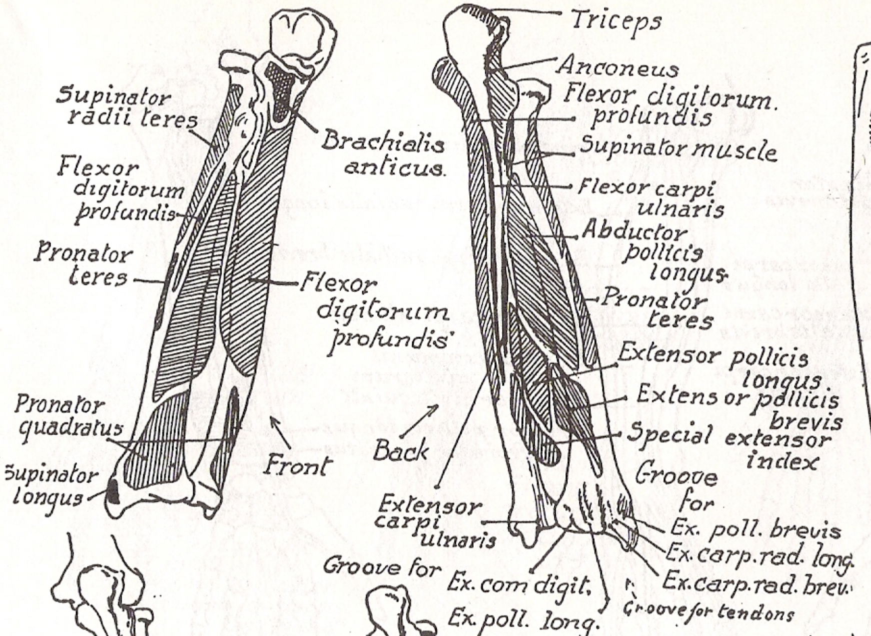

Biceps tendon
Supinator radii brevis
Front
Radius
ulna
Radius
Back of hand (Dorsal view)
Thumb
Palm view


Outer condyle of humerus
ulna
Anconeus side View


Ex. Digit. Quinti
Ex. Communis digitorum


Flexor carpi ulnaris
Extensor carpi ulnaris


Outer condyle
Anconeus back view


Supinator radii teres
Brachialis anticus
Flexor digitorum profundis
Pronator teres
Flexor digitorum profundis
Pronator quadratus
Supinator longus
Front
Triceps
Anconeus
Flexor digitorum. profundis
Supinator muscle
Flexor carpi ulnaris
Abductor pollicis longus
Pronator teres
Extensor pollicis longus.
Extens or pollicis brevis
Special extensor index
Back
Groove for
Extensor carpi ulnaris
Ex. poll. brevis
Ex. carp. rad. long.
Ex. carp. rad. brev.
Groove for Ex. com digit.
Ex. poll. long.
Groove for tendons

Radio-
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Obli
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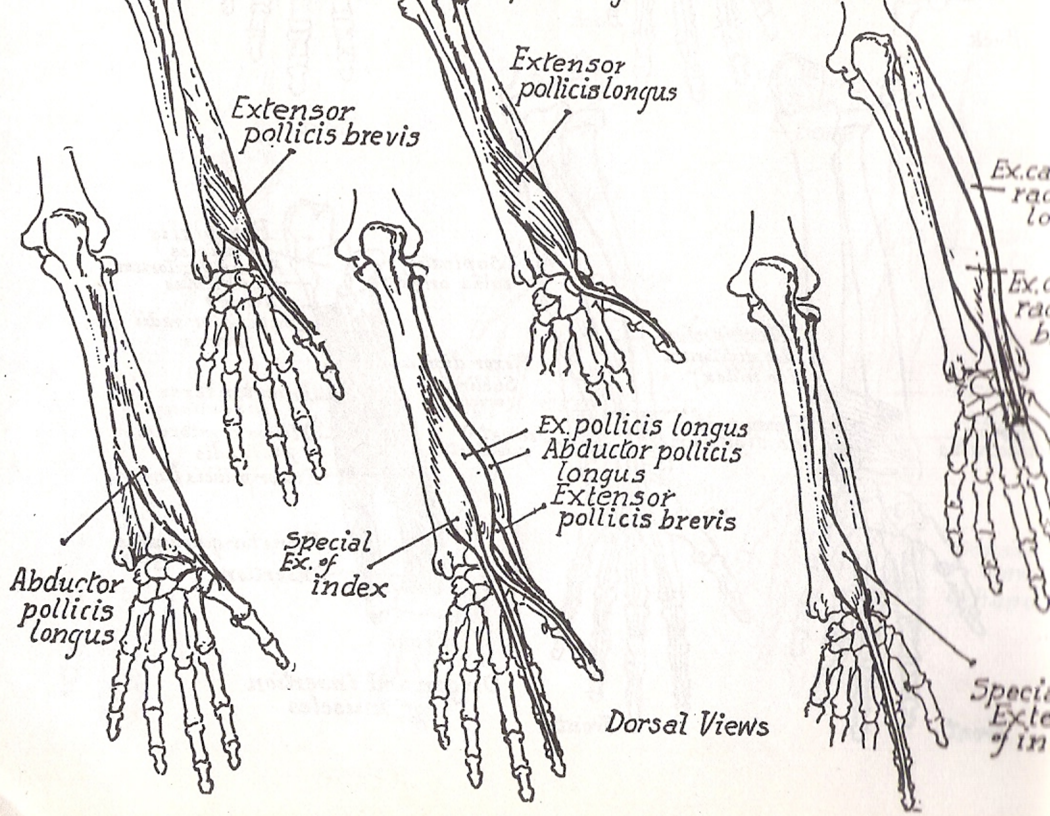
Si


Extensor pollicis brevis
Extensor pollicis longus
Ex.ca
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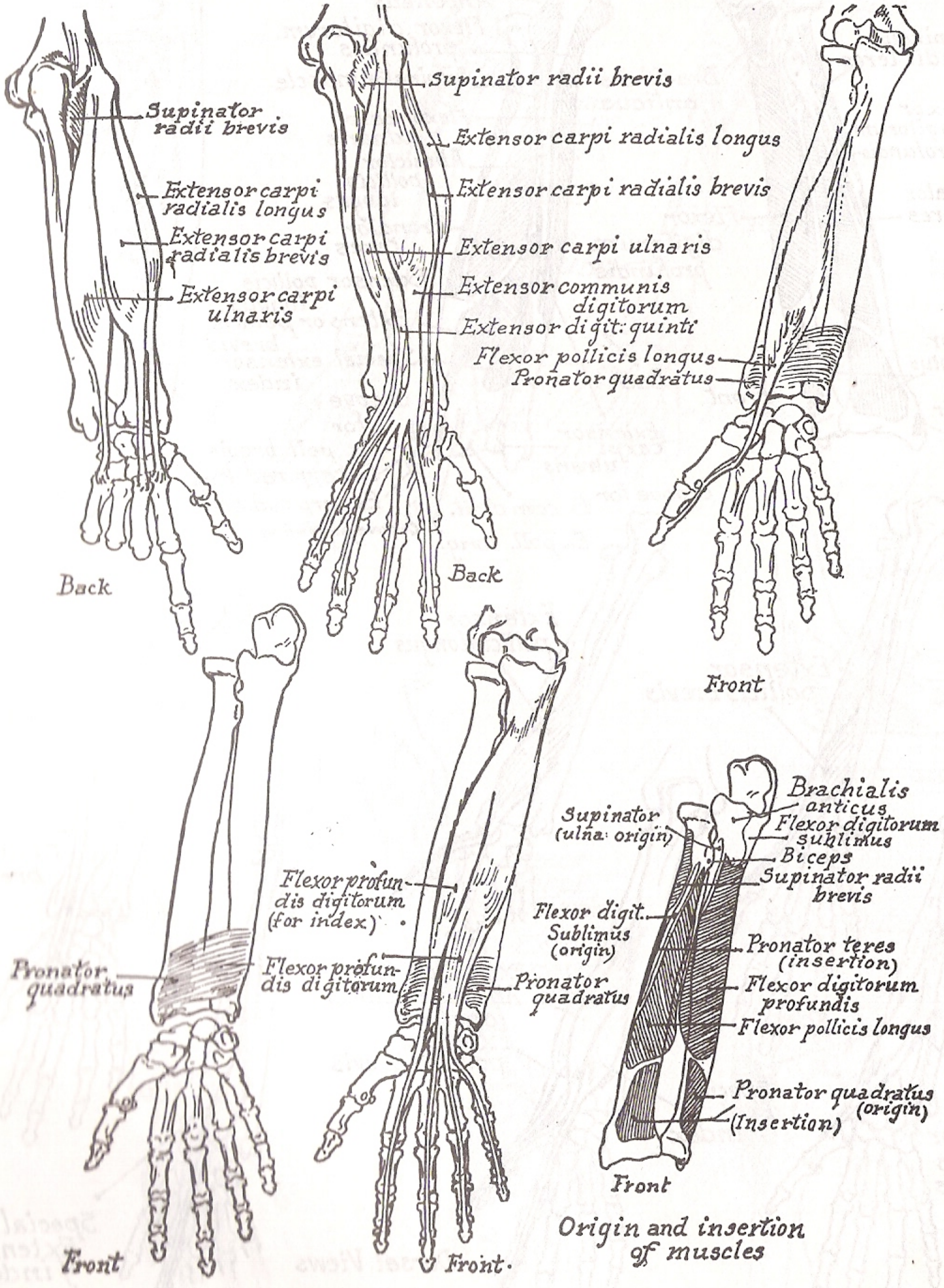
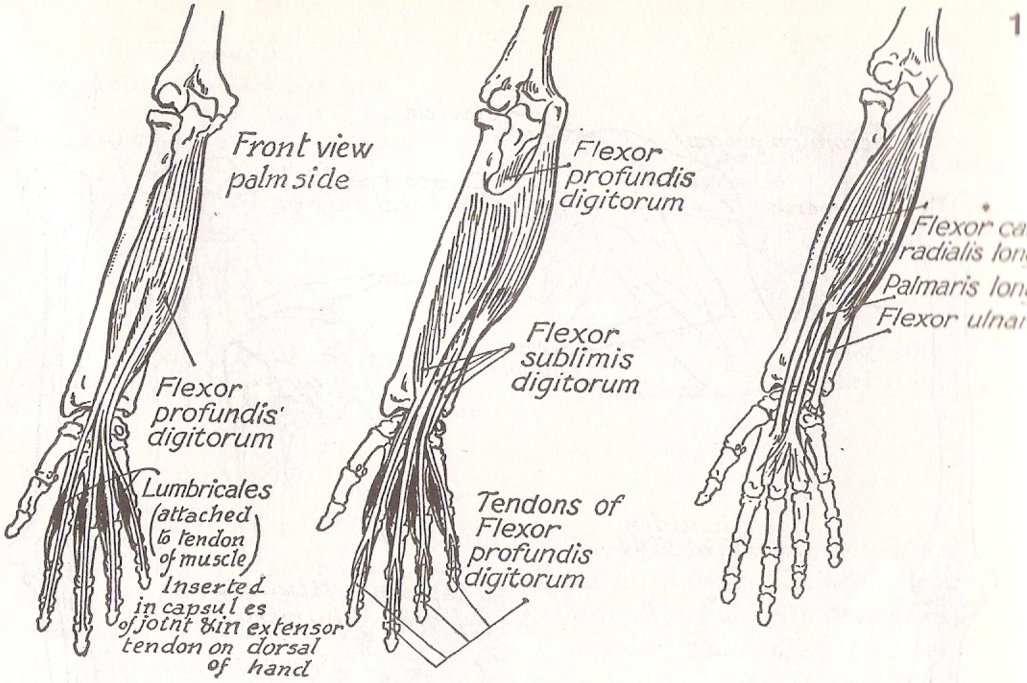
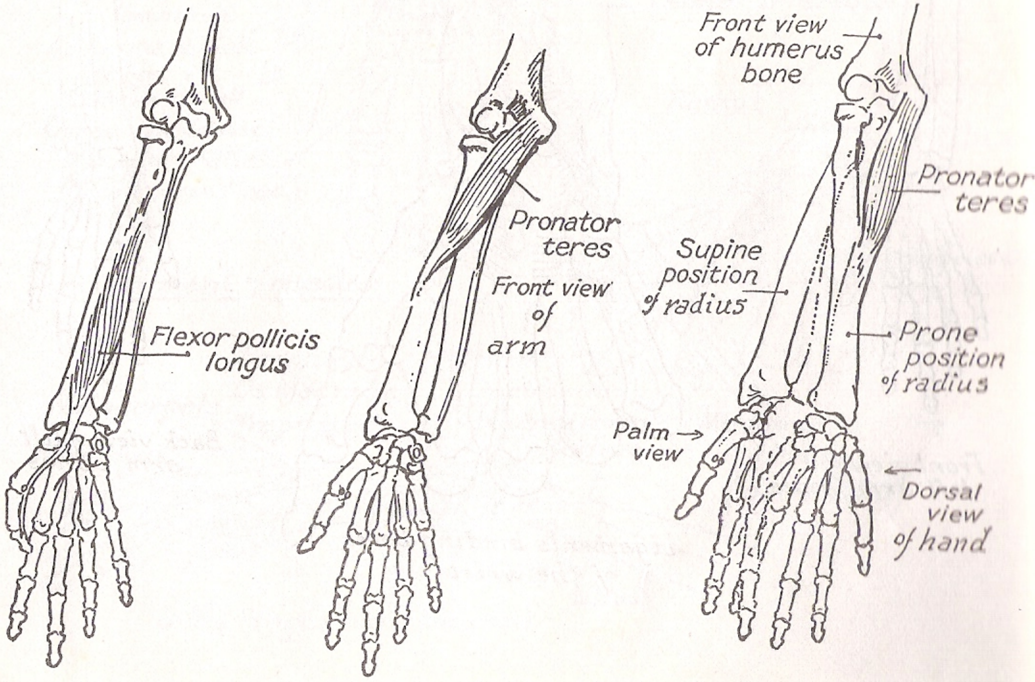
lo
Ex.c
ra
b
Ex. pollicis longus
Abductor pollicis longus
Extensor pollicis brevis
Special Ex. of index
Abductor pollicis longus
Specia
Exte
of in

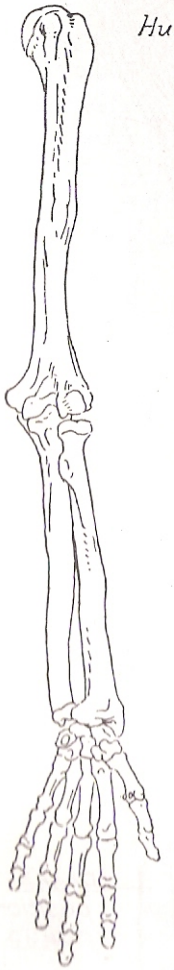
Dorsal Views


Supinator radii brevis
Extensor carpi radialis longus
Extensor carpi radialis brevis
Extensor carpi ulnaris
Back
Supinator radii brevis
Extensor carpi radialis longus
Extensor carpi radialis brevis
Extensor carpi ulnaris
Extensor communis digitorum
Extensor digit: quinti
Flexor pollicis longus
Pronator quadratus
Back
Front
Pronator quadratus
Front
Flexor profundis digitorum (for index)
Flexor profundis digitorum
Pronator quadratus
Front.
Supinator (ulna: origin)
Brachialis anticus
Flexor digitorum sublimus
Biceps
Supinator radii brevis
Flexor digit. Sublimus (origin)
Pronator teres (insertion)
Flexor digitorum profundis
Flexor pollicis longus
Pronator quadratus (origin)
(Insertion)
Front

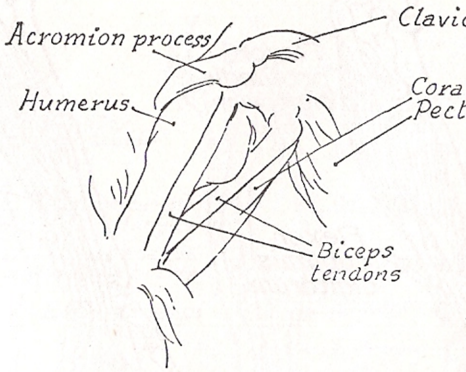
Origin and insertion of muscles


Front view palm side
Flexor profundis' digitorum
Lumbricales (attached to tendon of muscle)
Inserted in capsules of joint & in extensor tendon on dorsal of hand
Flexor profundis digitorum
Flexor sublimis digitorum
Tendons of Flexor profundis digitorum
Flexor ca
radialis lon
Palmaris lon
Flexor ulnar


Flexor pollicis longus
Pronator teres
Front view of arm
Front view of humerus bone
Pronator teres
Supine position of radius
Prone position of radius
Palm → view
← Dorsal view of hand

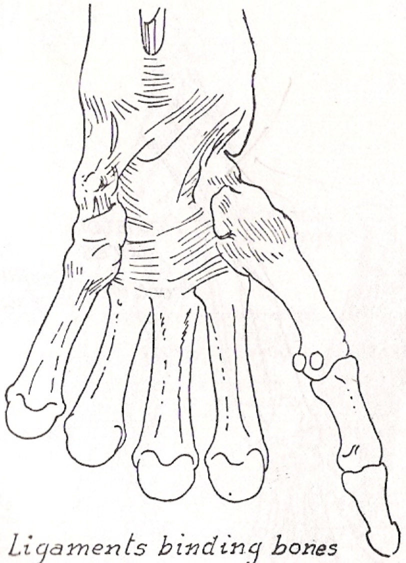


Front view of left arm bones

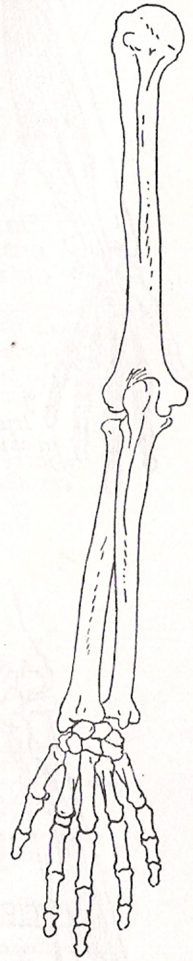

Acromion process
Clavicle
Humerus
Coraco brachialis
Pectoral minor
Biceps tendons

Shoulder right side

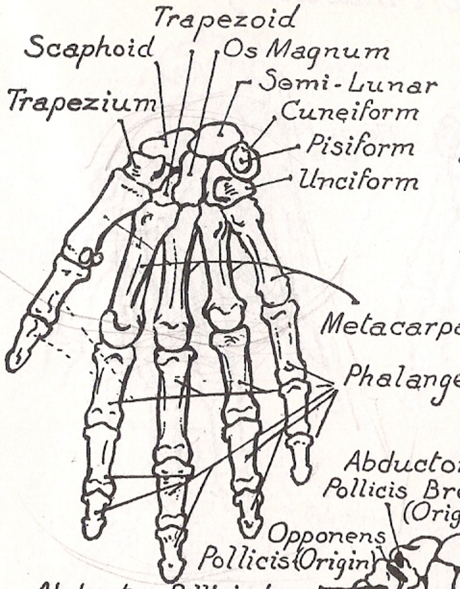
Capsula articularis of head of humerus

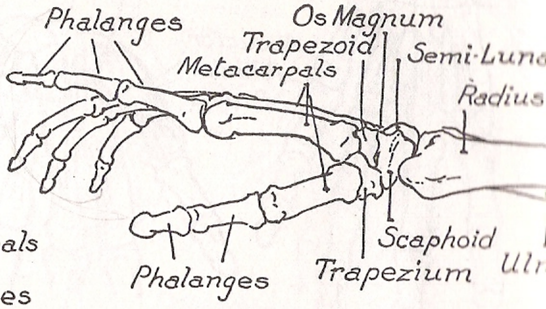


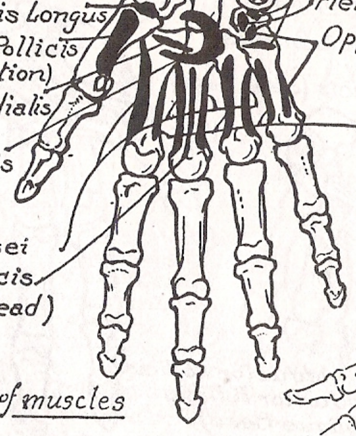
Ligaments binding bones of the wrist



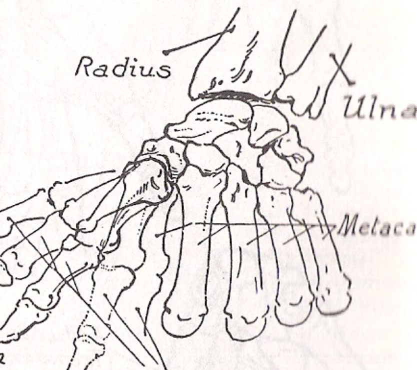
Back view of left arm bones


Trapezoid
Scaphoid
Os Magnum
Semi-Lunar
Trapezium
Cuneiform
Pisiform
Unciform
Metacarpals
Phalanges

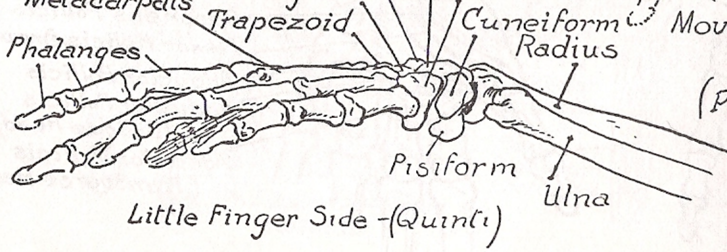

Phalanges
Os Magnum
Trapezoid
Semi-Lun
Metacarpals
Radius
Scaphoid
Ul
Phalanges
Trapezium


Abductor Pollicis Brevis (Origin)
Opponens Pollicis (Origin)
Abductor Pollicis Longus
Opponens Pollicis (insertion)
Flexor Carpi Radialis (insertion)
Adductor Pollicis (origin of Oblique Head)
Dorsal Interossei
Adductor Pollicis (Transverse Head)
Flexor Carpi Ulnaris (insertion)
Abductor Digiti Quinti (origin)
Flexor Digiti Quinti Brevis (origin)
Opponens Digiti Quinti (origin)
Palmar Interossei

Attachment of muscles

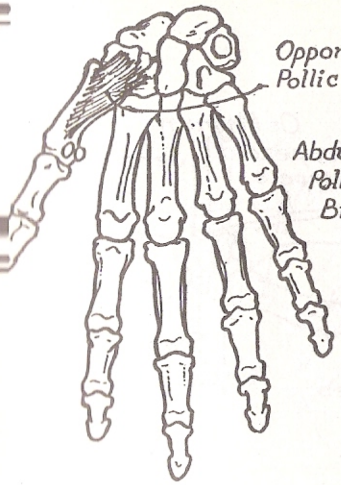

Radius
Ulna
Metaca

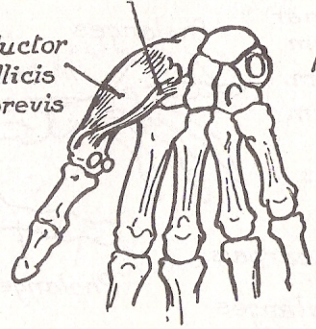
Movements of the thumb (palm View)

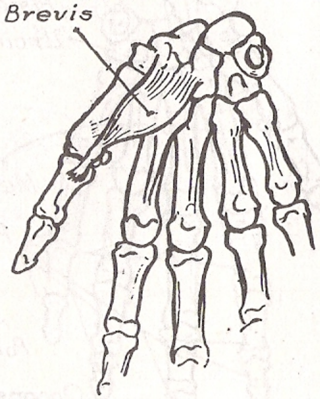

Scaphoid
Semi-Lunar
Os Magnum
Unciform
Metacarpals
Trapezoid
Cuneiform
Radius
Phalanges
Pisiform
Ulna

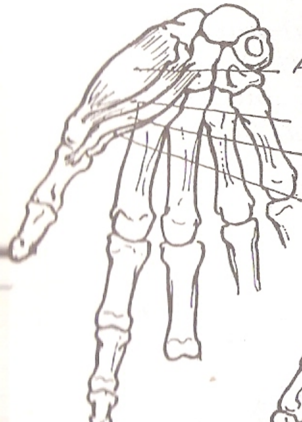
Little Finger Side -(Quinti)

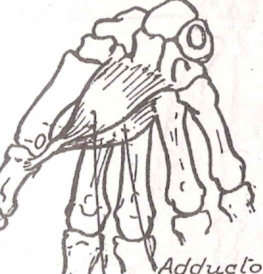
Short muscles of thumb

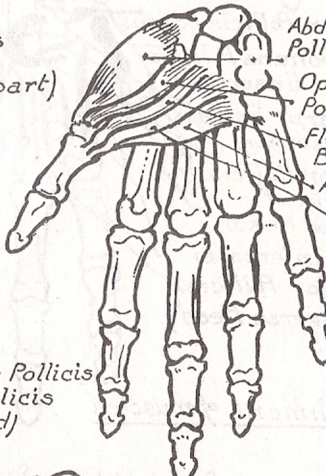

Opponens Pollicis.

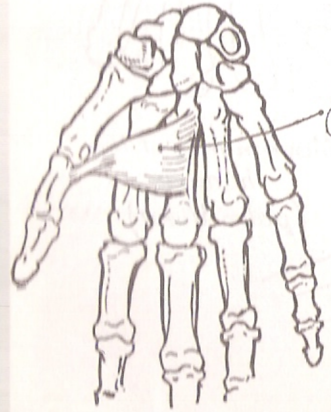

Opponens Pollicis
Abductor Pollicis Brevis

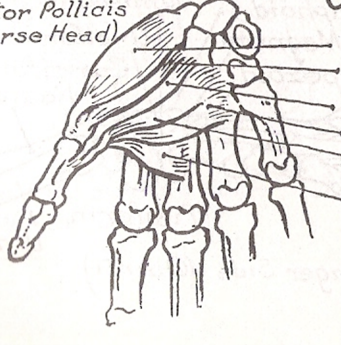

Flexor Pollicis Brevis

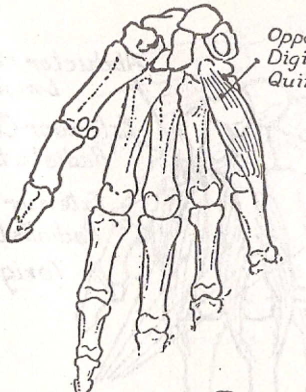

Abductor Pollicis Brevis
Opponens Pollicis
Flexor Pollicis Brevis
Flexor Pollicis (deep part)

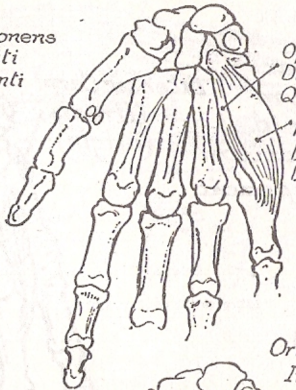

Adductor Pollicis
Adductor Pollicis (Oblique Head)

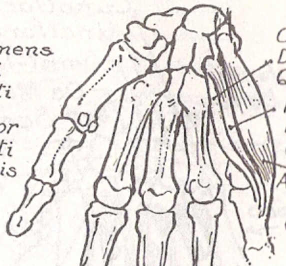

Abductor Pollicis Brevis
Opponens Pollicis
Flexor Pollicis Brevis
Adductor Pollicis
Adductor Pollicis (Oblique Head)

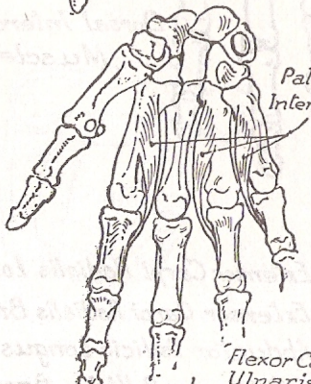

Adductor Pollicis (Tranverse Head)

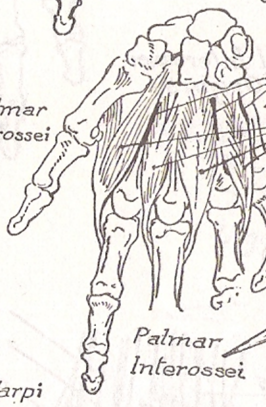

Abductor Pollicis Brevis
Opponens Pollicis
Flexor Pollicis Brevis
Adductor Pollicis
Adductor Pollicis (Oblique Head)
Adductor Pollicis (Transverse Head)

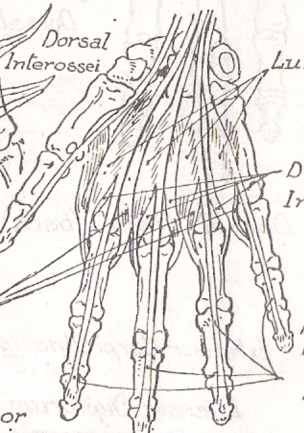

Opponens Digiti Quinti

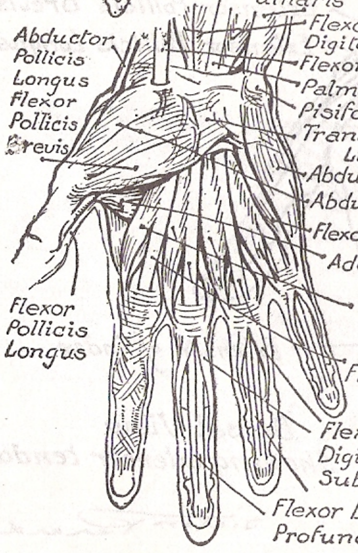

Opponens Digiti Quinti
Flexor Digiti Brevis

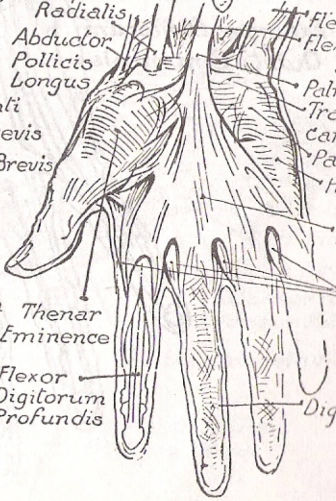

Opponens Digiti Quinti
Flexor Digiti Quinti
Abductor Digiti Quinti

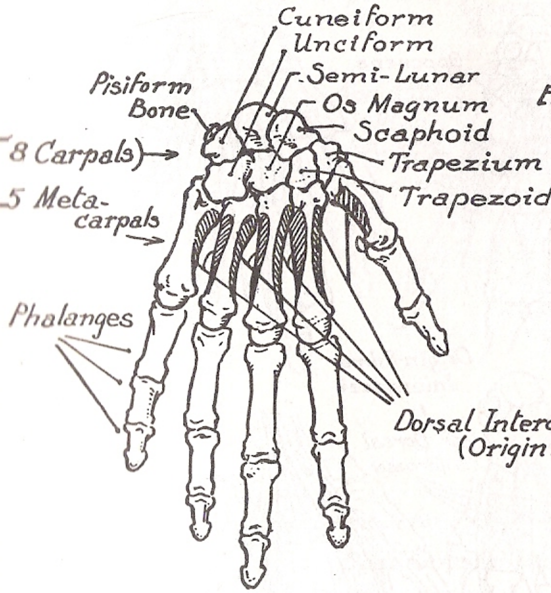

Palmar Interossei

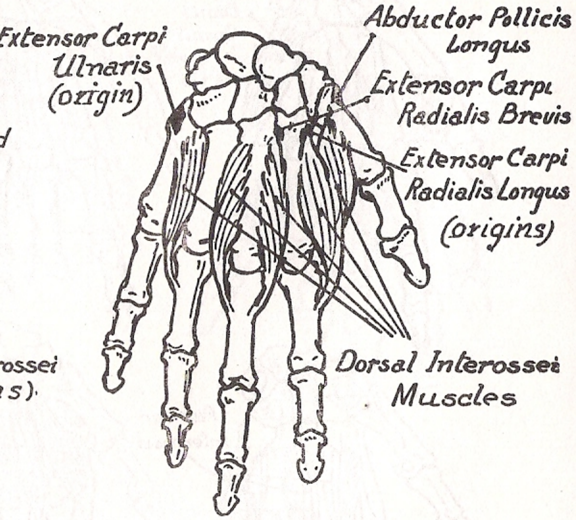

Origin-Palmar Interossei
Dorsal Interossei
Palmar Interossei


Lubricals
Dorsal Interossei
Flexor Longus Profundis Digitorum

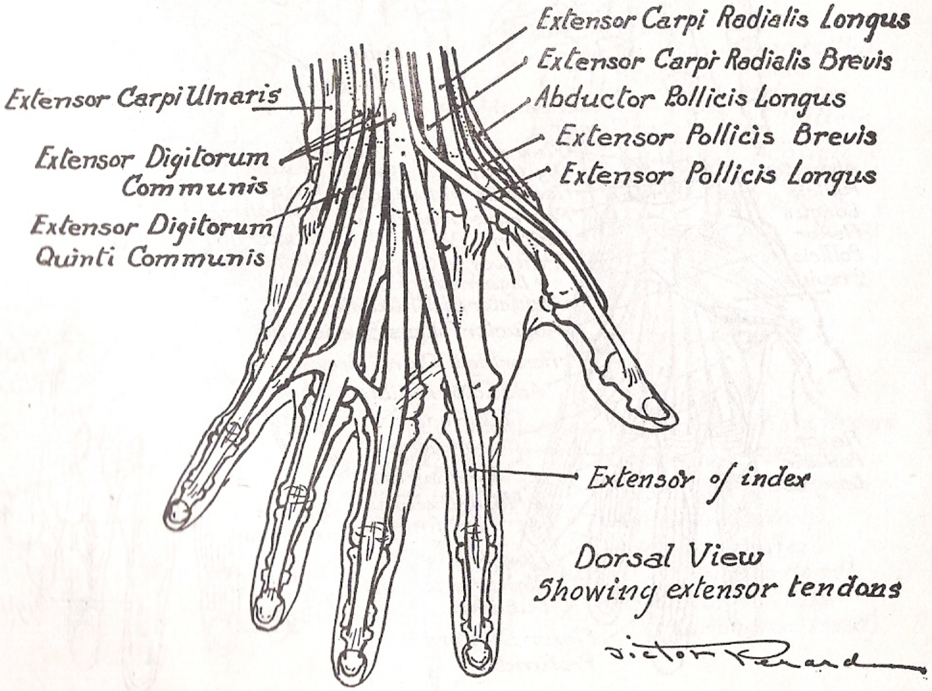

Flexor Carpi Ulnaris
Flexor Digitorum Sublimis
Flexor Carpi Radialis
Palmaris Longus
Pisiform Bone
Transverse Carpal Ligament
Abductor Digiti Quinti
Abductor Pollicis Brevis
Flexor Digiti Quinti Brevis
Adductor Pollicis
Lubrical Muscles
Tendons of Flexor Digitorum Sublimis
Flexor Digitorum Sublimis
Flexor Digitorum Profundis
Abductor Pollicis Longus
Flexor Pollicis Brevis
Flexor Pollicis Longus


Flexor Carpi Radialis
Abductor Pollicis Longus
Flexor Carpi Ulnaris
Flexor Digitorum Sublimis
Palmaris Longus
Transverse Carpal Ligament
Palmaris Brevis
Hypothenar Eminence
Palmar Aponeurosis
Lubrical Muscles
Thenar Eminence
Flexor Digitorum Profundis
Digital Sheath


Cuneiform
Unciform
Semi-Lunar
Pisiform Bone
Os Magnum
Scaphoid
8 Carpals
Trapezium
Trapezoid
5 Meta-carpals
Phalanges
Dorsal Interossei (Origins).

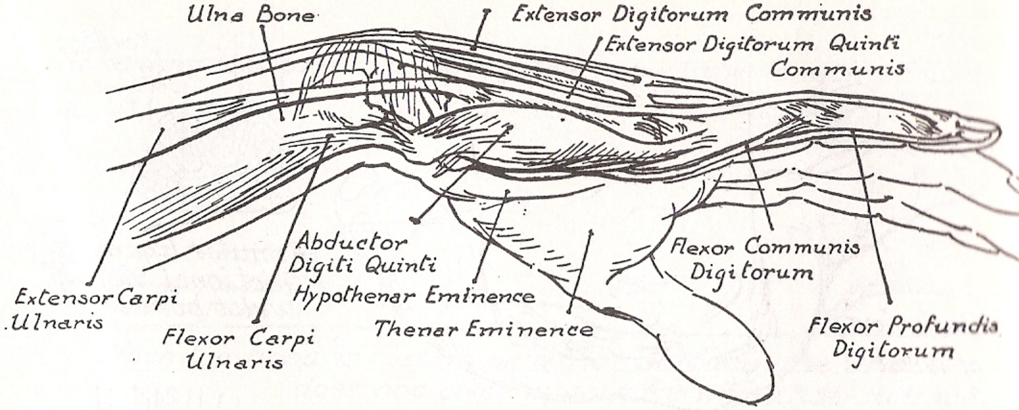

Extensor Carpi Ulnaris (origin)
Abductor Pollicis Longus
Extensor Carpi Radialis Brevis
Extensor Carpi Radialis Longus (origins)
Dorsal Interossei Muscles

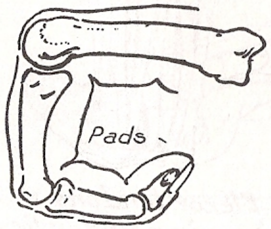
Dorsal View (back)

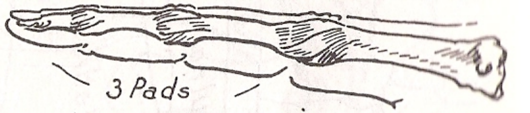

Extensor Carpi Radialis Longus
Extensor Carpi Radialis Brevis
Extensor Carpi Ulnaris
Abductor Pollicis Longus
Extensor Pollicis Brevis
Extensor Pollicis Longus
Extensor Digitorum Communis
Extensor Digitorum Quinti Communis
Extensor of index

Dorsal View
Showing extensor tendons

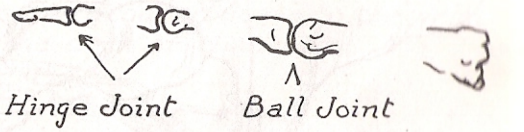
Victor Perard

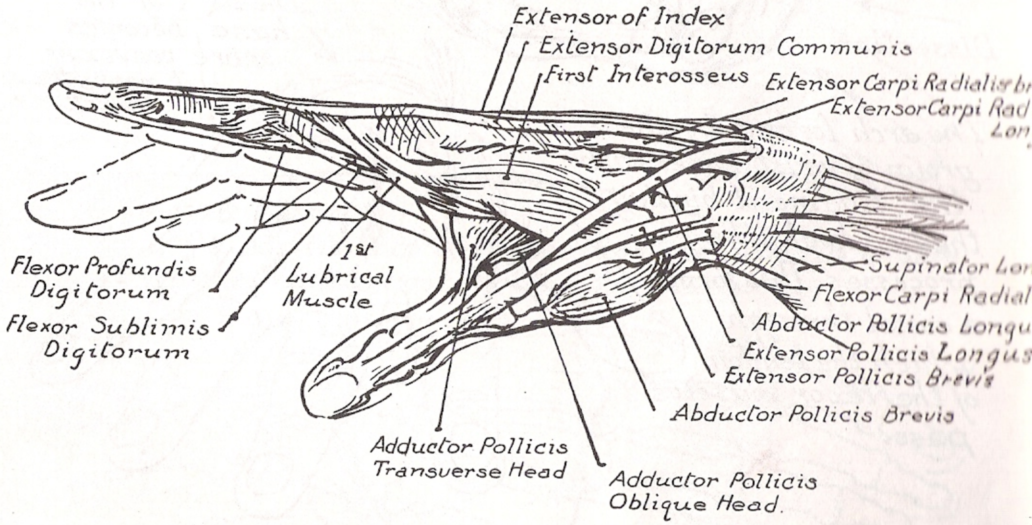

Ulna Bone
Extensor Digitorum Communis
Extensor Digitorum Quinti Communis
Abductor Digiti Quinti
Hypothenar Eminence
Extensor Carpi Ulnaris
Flexor Carpi Ulnaris
Thenar Eminence
Flexor Communis Digitorum
Flexor Profundis Digitorum

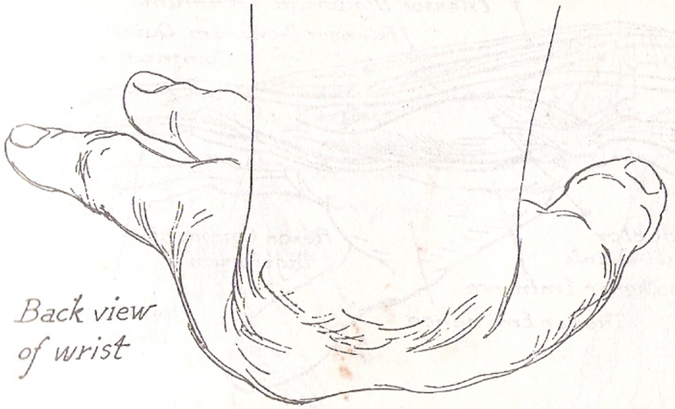




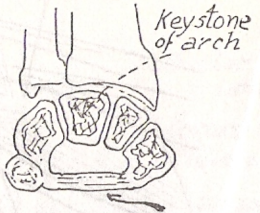
Ligaments of Finger Joints


Hinge Joint
Ball Joint


Extensor of Index
Extensor Digitorum Communis
First Interosseus
Extensor Carpi Radialis br
Extensor Carpi Rad Lon
Supinator Lon
Flexor Carpi Radial
Abductor Pollicis Longu
Extensor Pollicis Longus
Extensor Pollicis Brevis
Abductor Pollicis Brevis
Flexor Profundis Digitorum
Flexor Sublimis Digitorum
1st Lubrical Muscle
Adductor Pollicis Transverse Head
Adductor Pollicis Oblique Head.

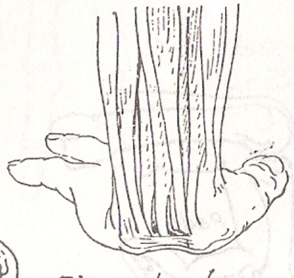


Back view of wrist

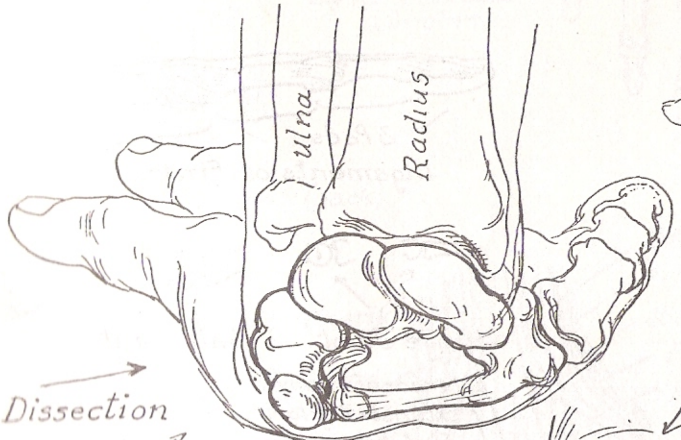


Keystone of arch

Annular ligament. Sectional view of wrist bones



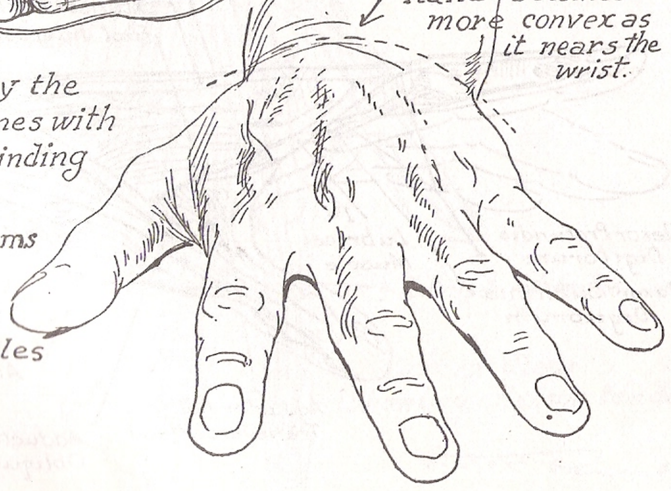
Flexor tendons passing under the arch of the wrist bones.



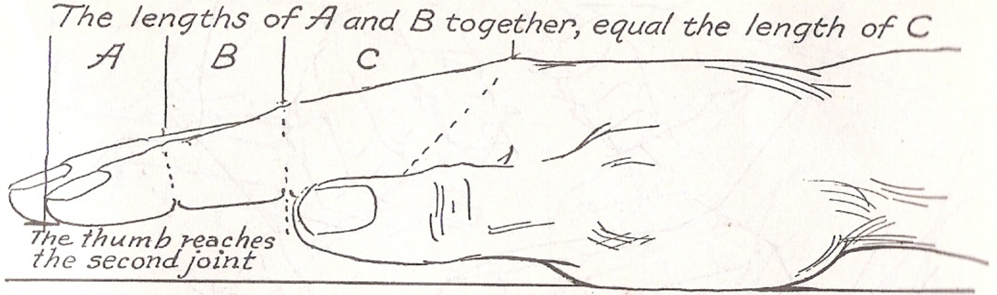
ulna
Radius

Dissection

The arch formed by the group of wrist bones with the ligament binding the two hook like processes. This forms a canal through which the tendons of the flexor muscles pass.

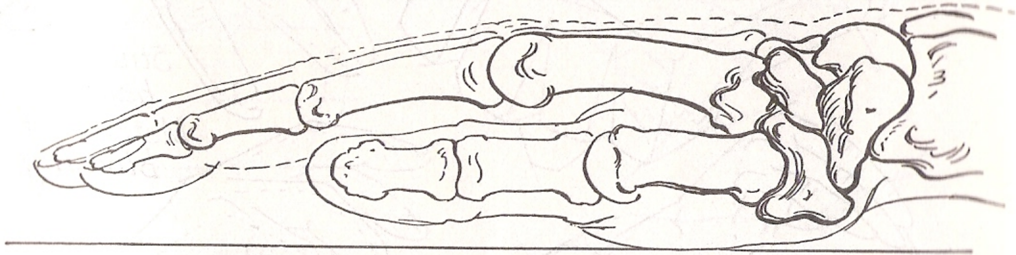


The back of the hand becomes more convex as it nears the wrist.

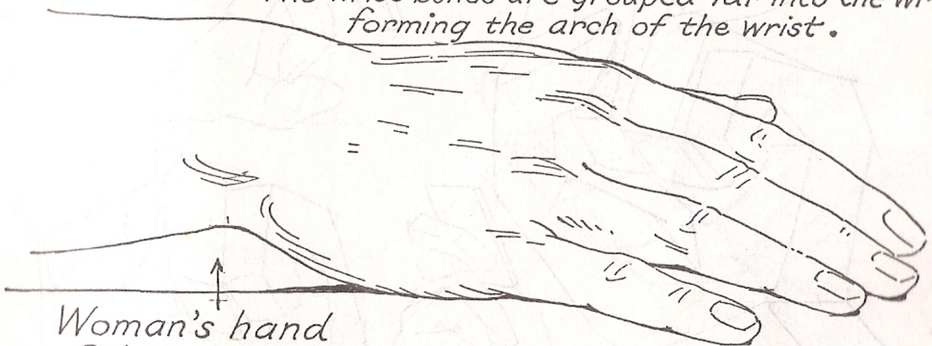


The lengths of A and B together, equal the length of C
A
B
C
The thumb reaches the second joint

When the hand is resting on a flat surface, the wrist does not come in contact with that surface.

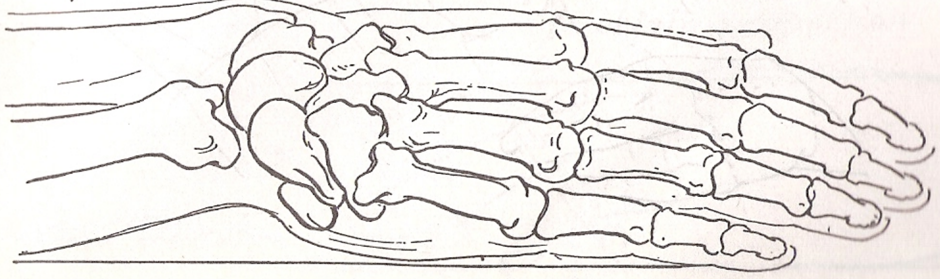


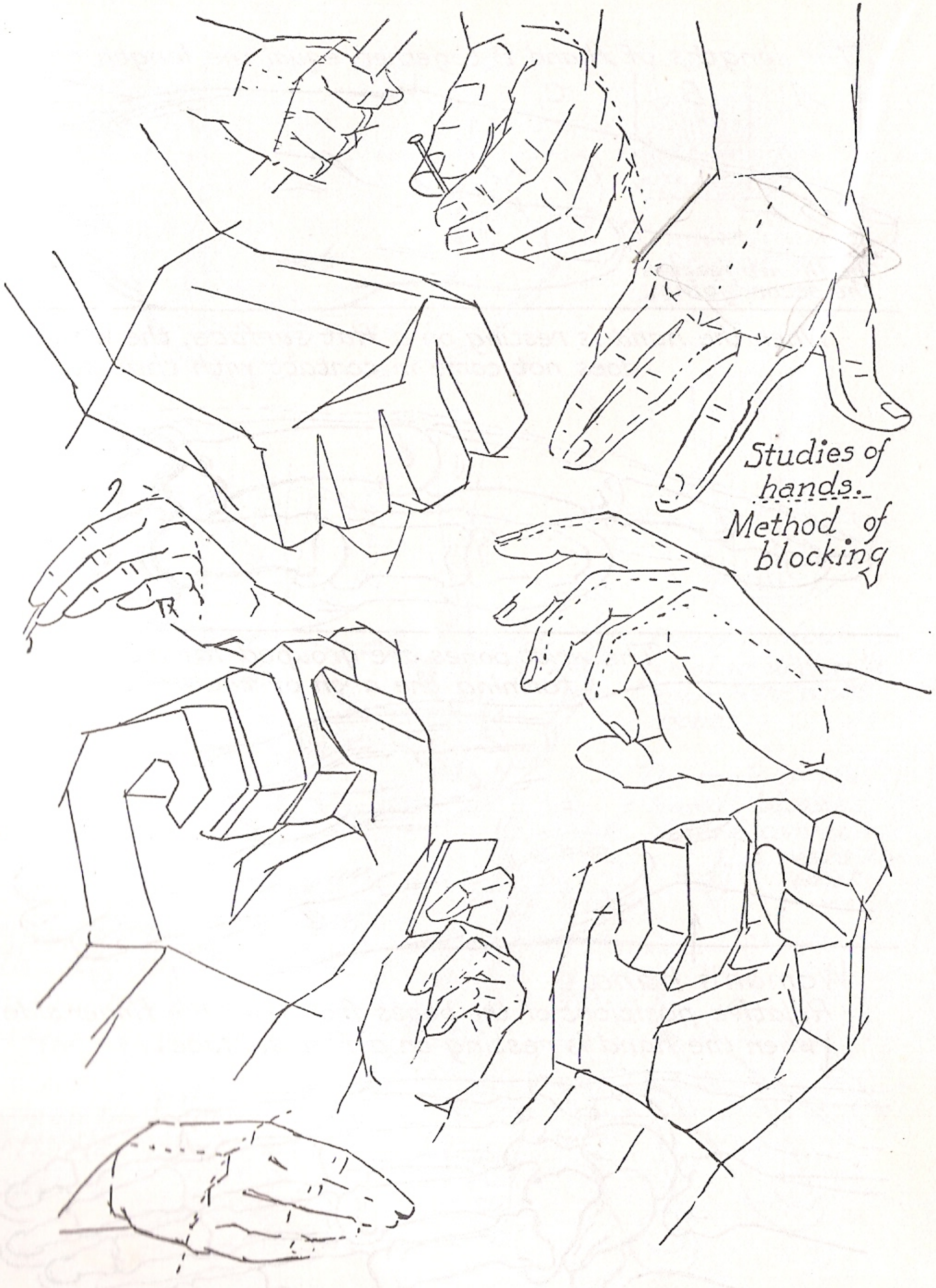
The wrist bones are grouped far into the wrist forming the arch of the wrist.



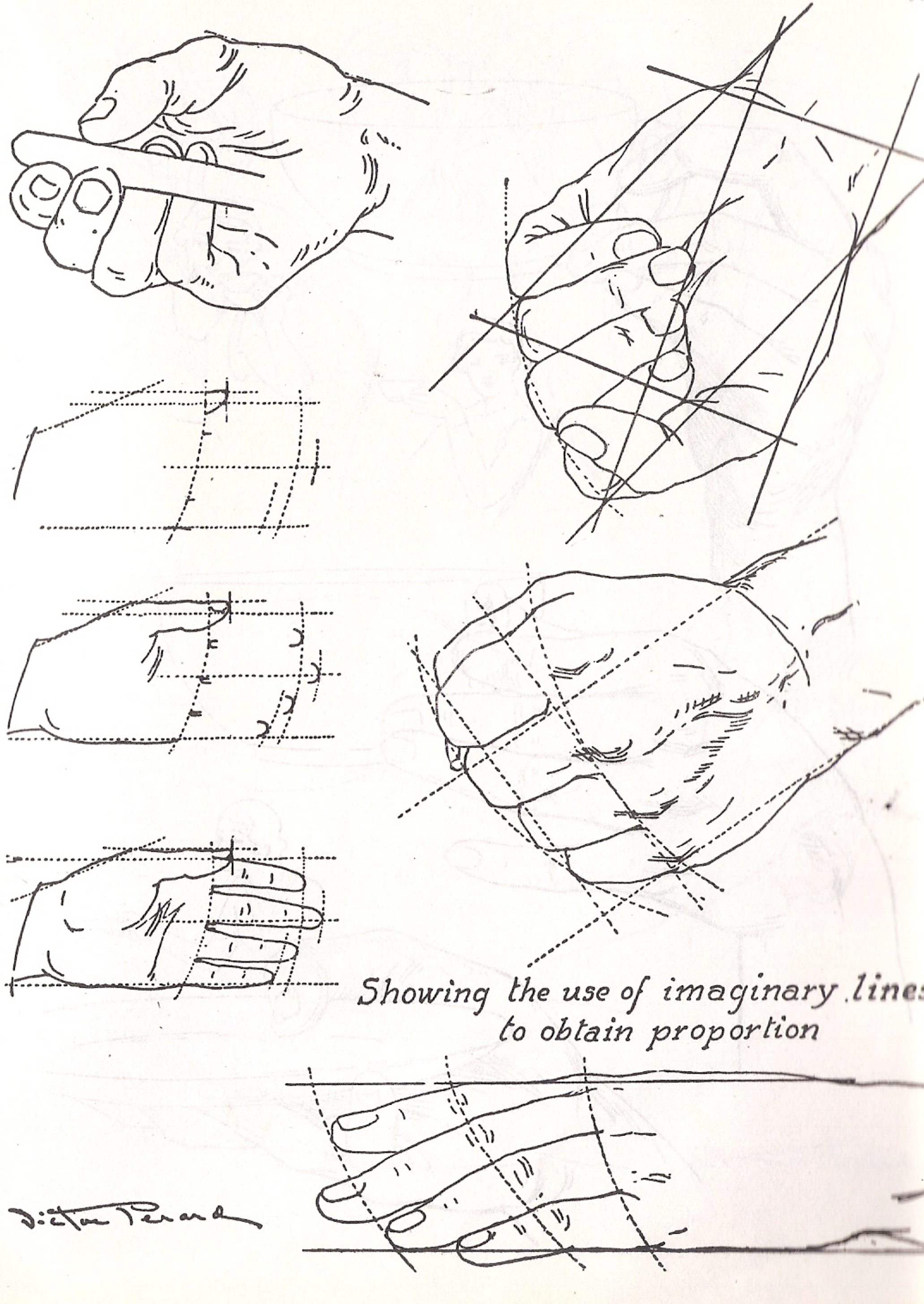
Woman's hand

Relative positions of the bones from the little finger side when the hand is resting on a flat surface.



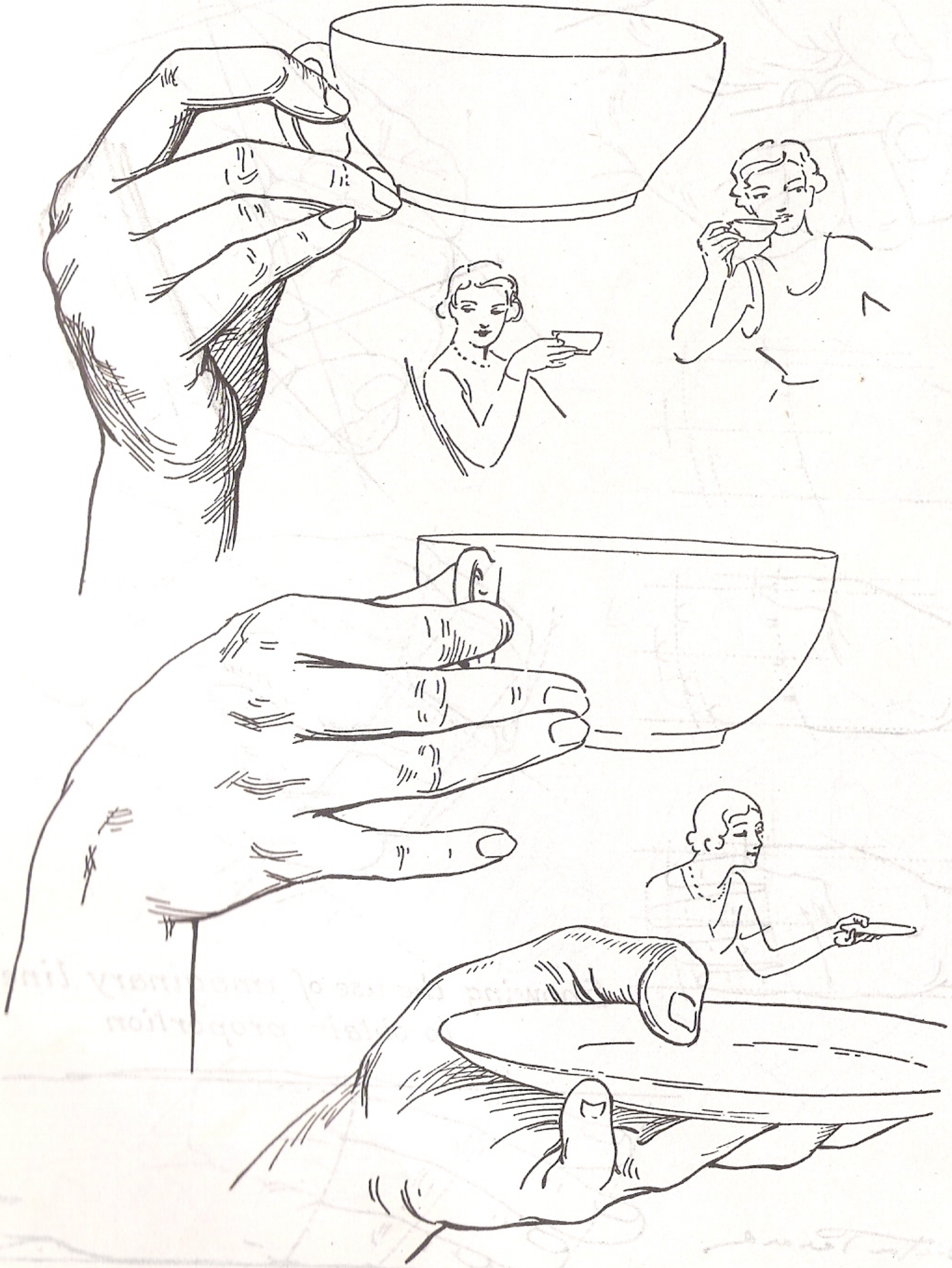


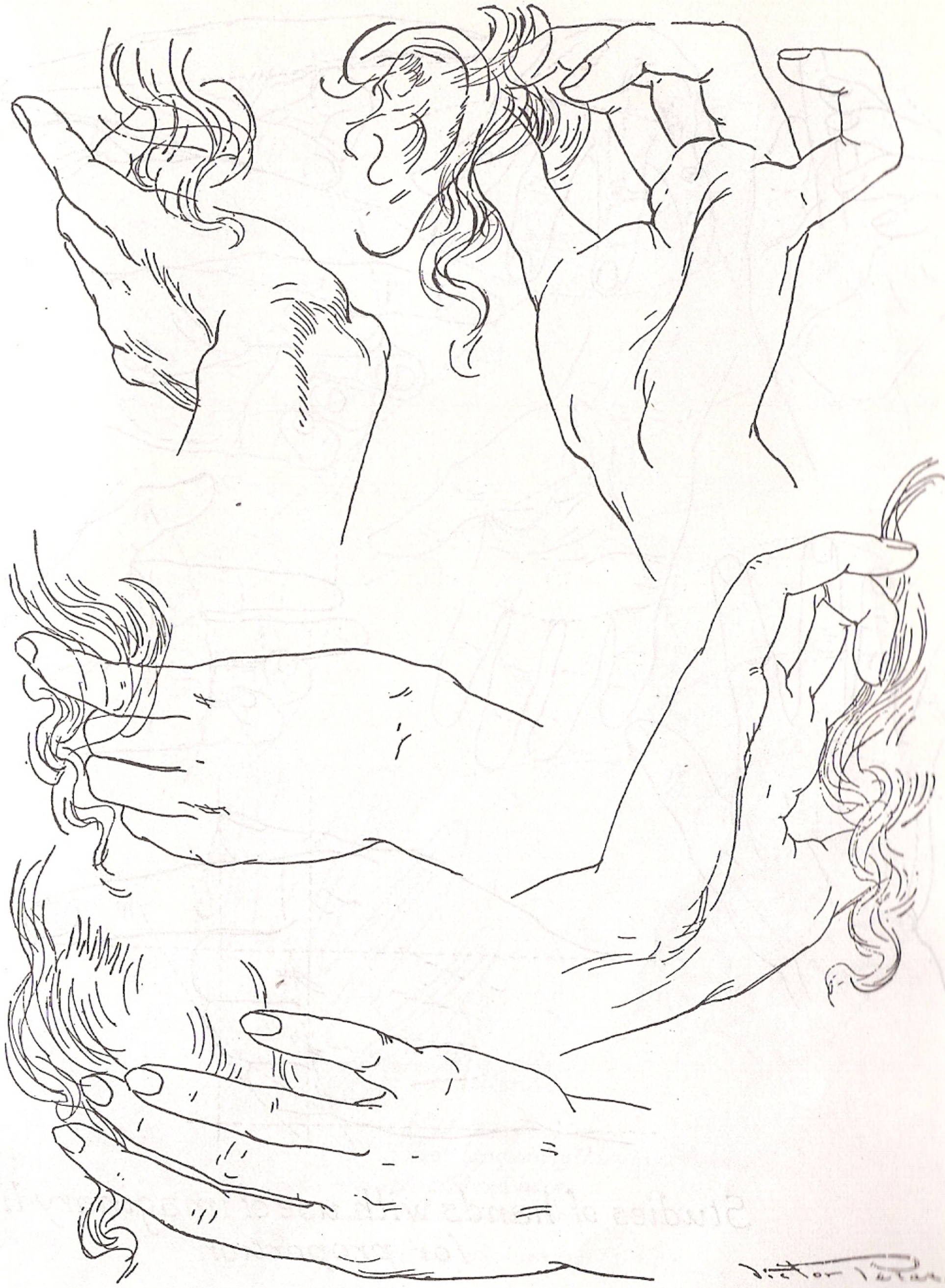
Studies of hands. Method of blocking



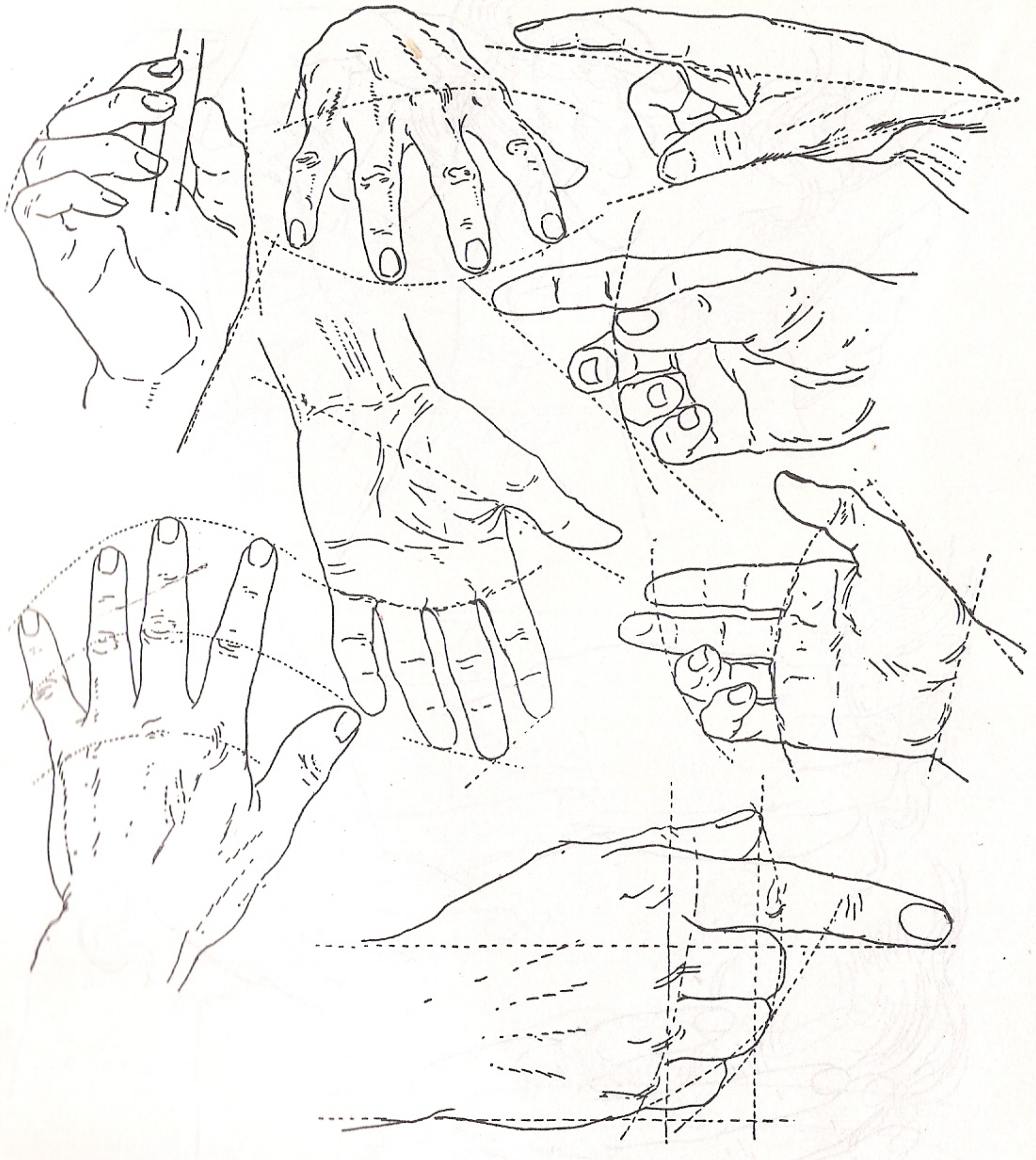
Showing the use of imaginary line
to obtain proportion

Victor Perard

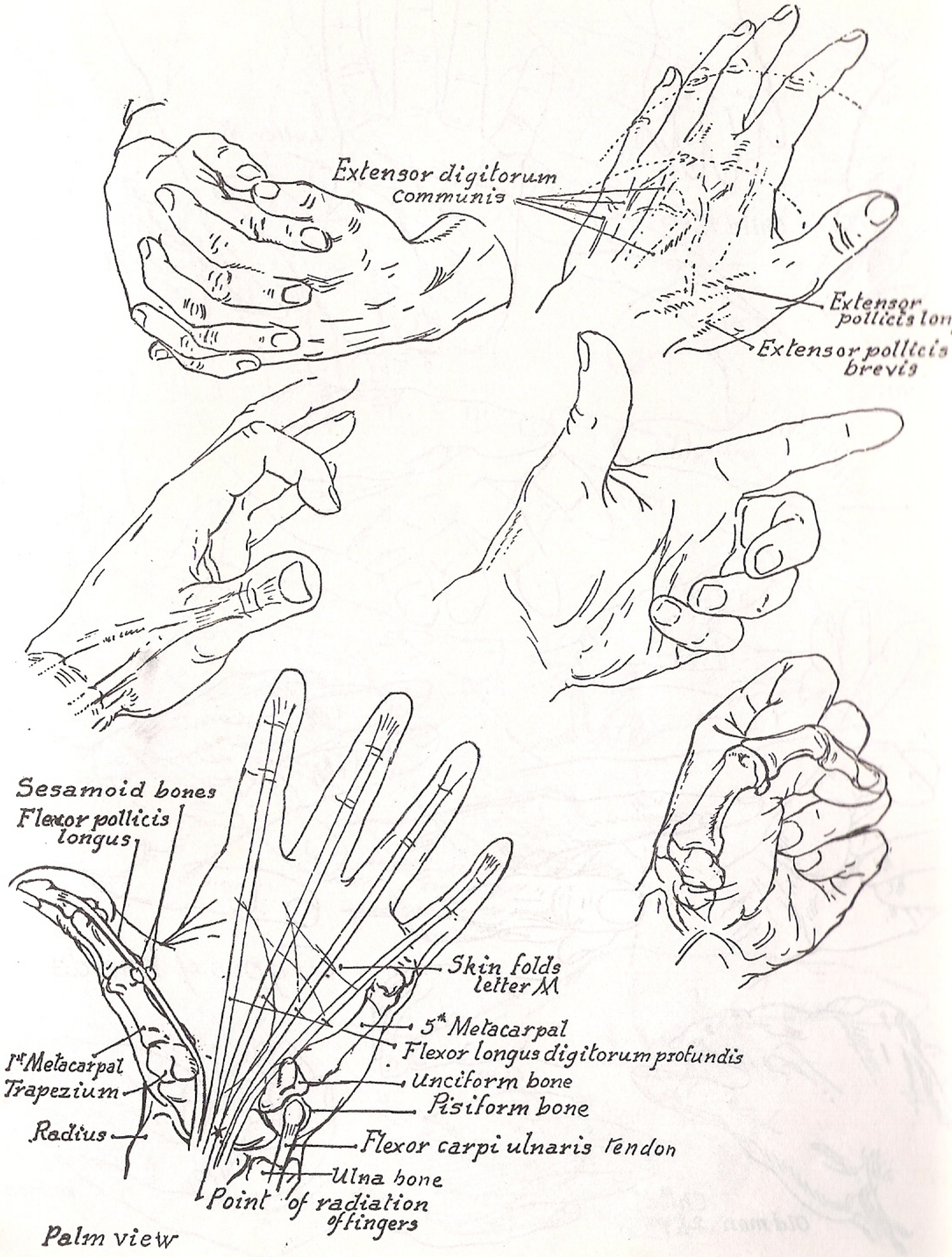


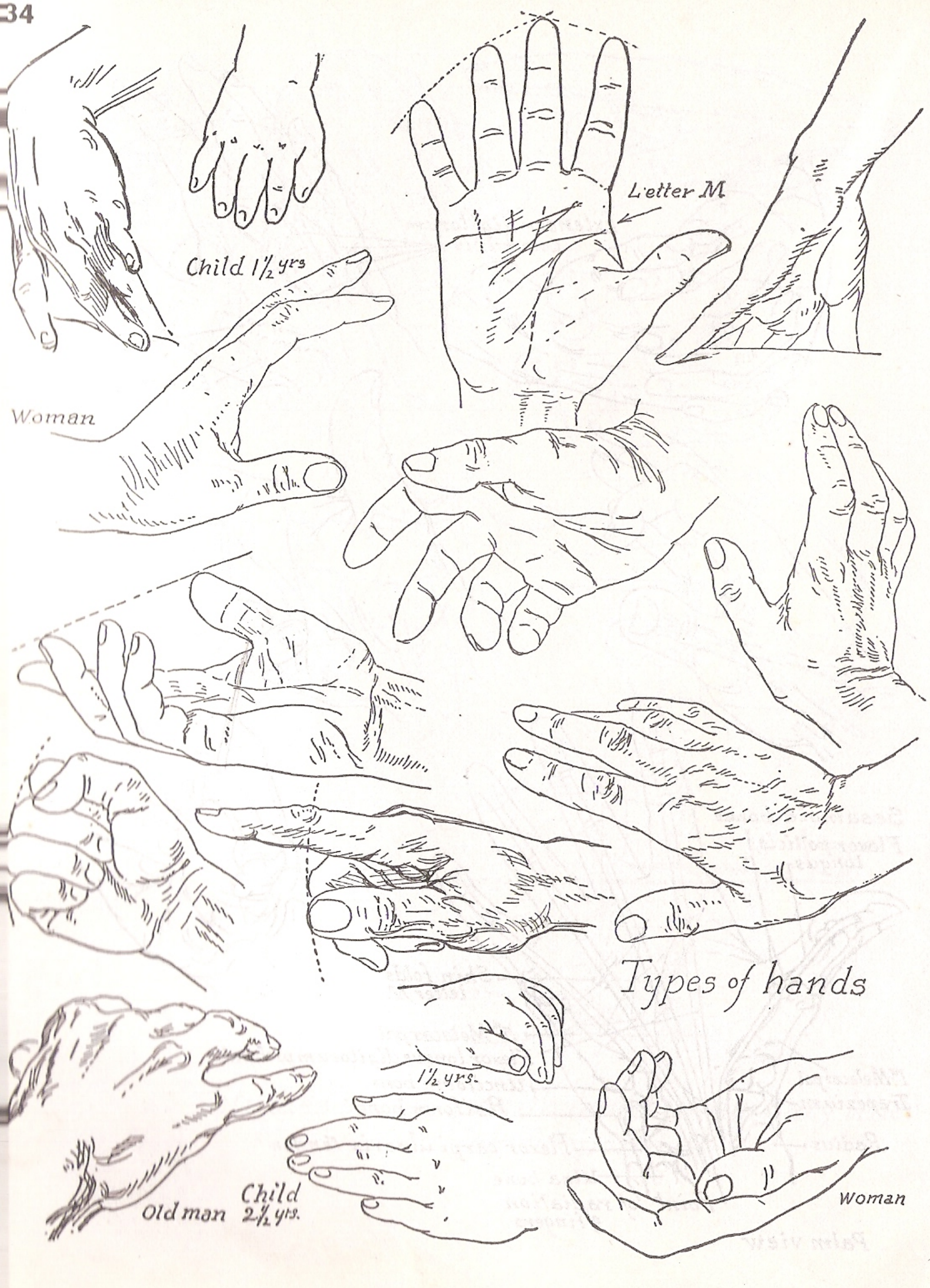


Victor Perard

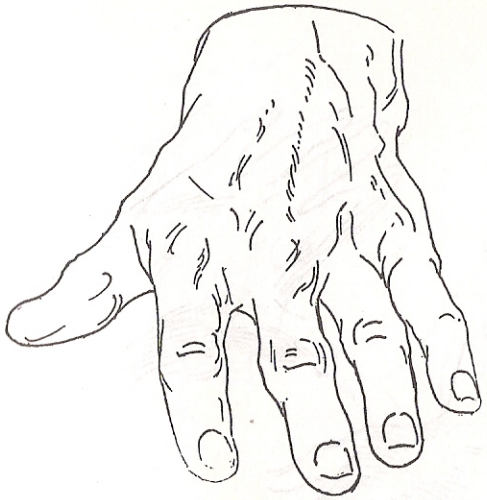


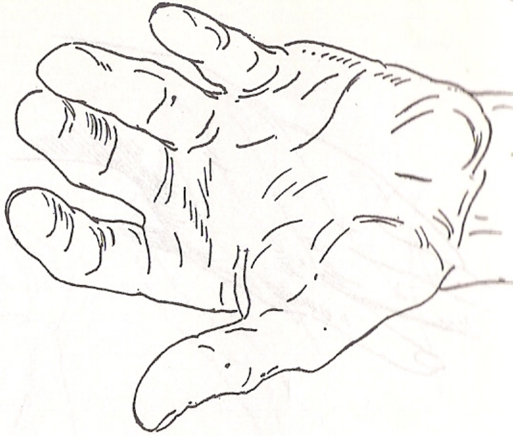
Studies of hands with use of imaginary lines for proportion

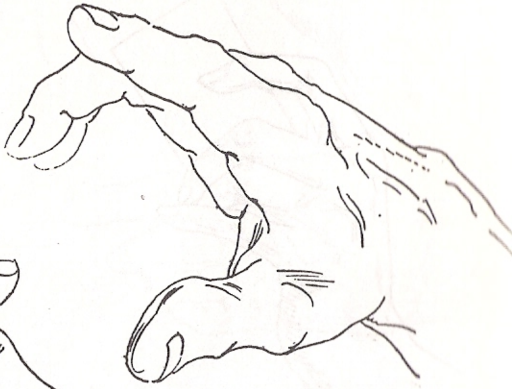

Extensor digitorum communis
Extensor pollicis lon
Extensor pollicis brevis
Sesamoid bones
Flexor pollicis longus
Skin folds letter M
5th Metacarpal
Flexor longus digitorum profundis
1st Metacarpal
Trapezium
Unciform bone
Pisiform bone
Radius
Flexor carpi ulnaris tendon
Ulna bone
Point of radiation of fingers
Palm view

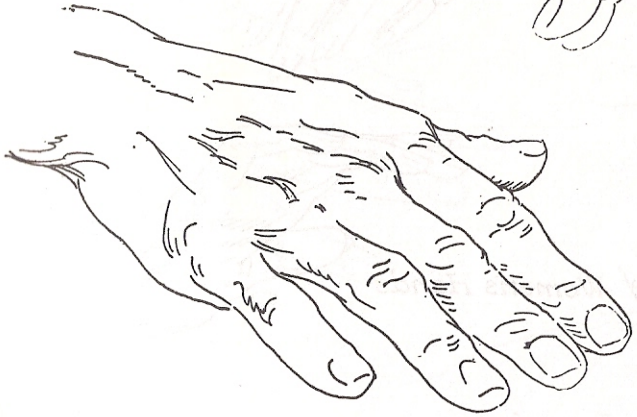

Child 1½ yrs
Letter M
Woman
1½ yrs.
Old man
Child 2½ yrs.
Woman

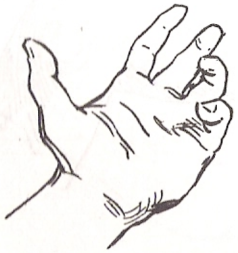
Types of hands

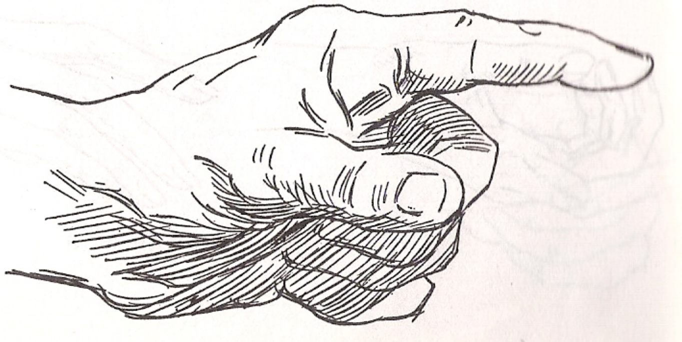


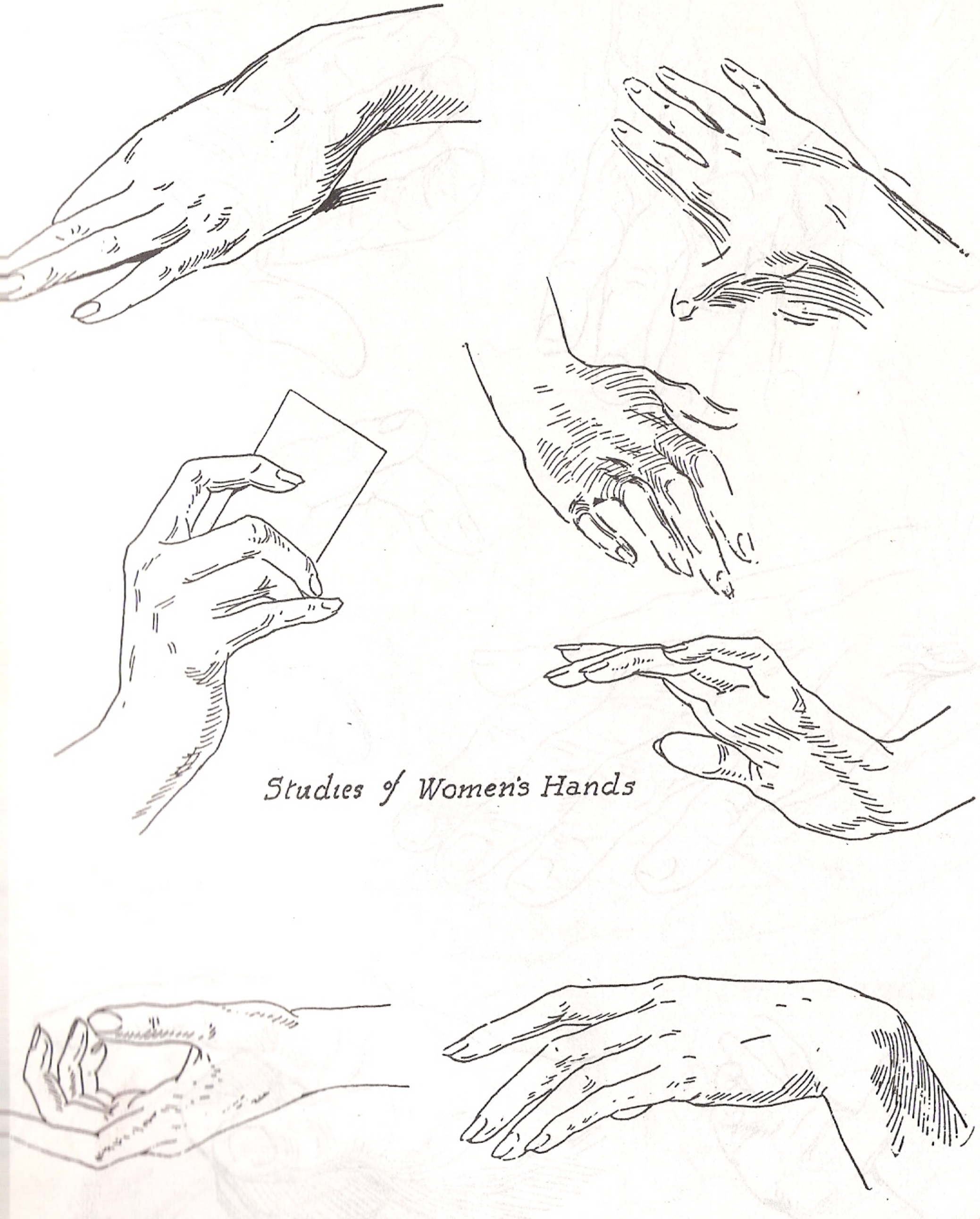




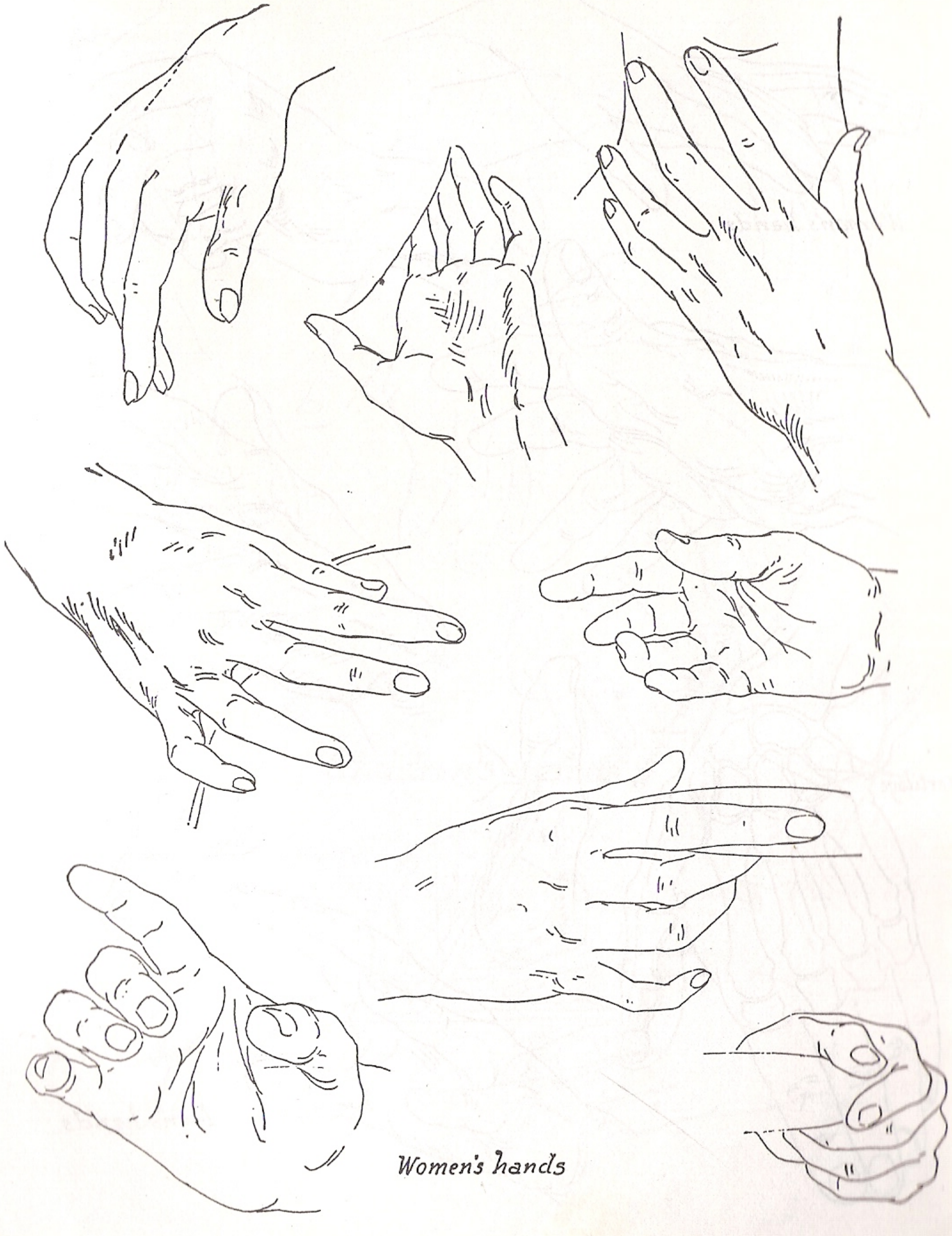




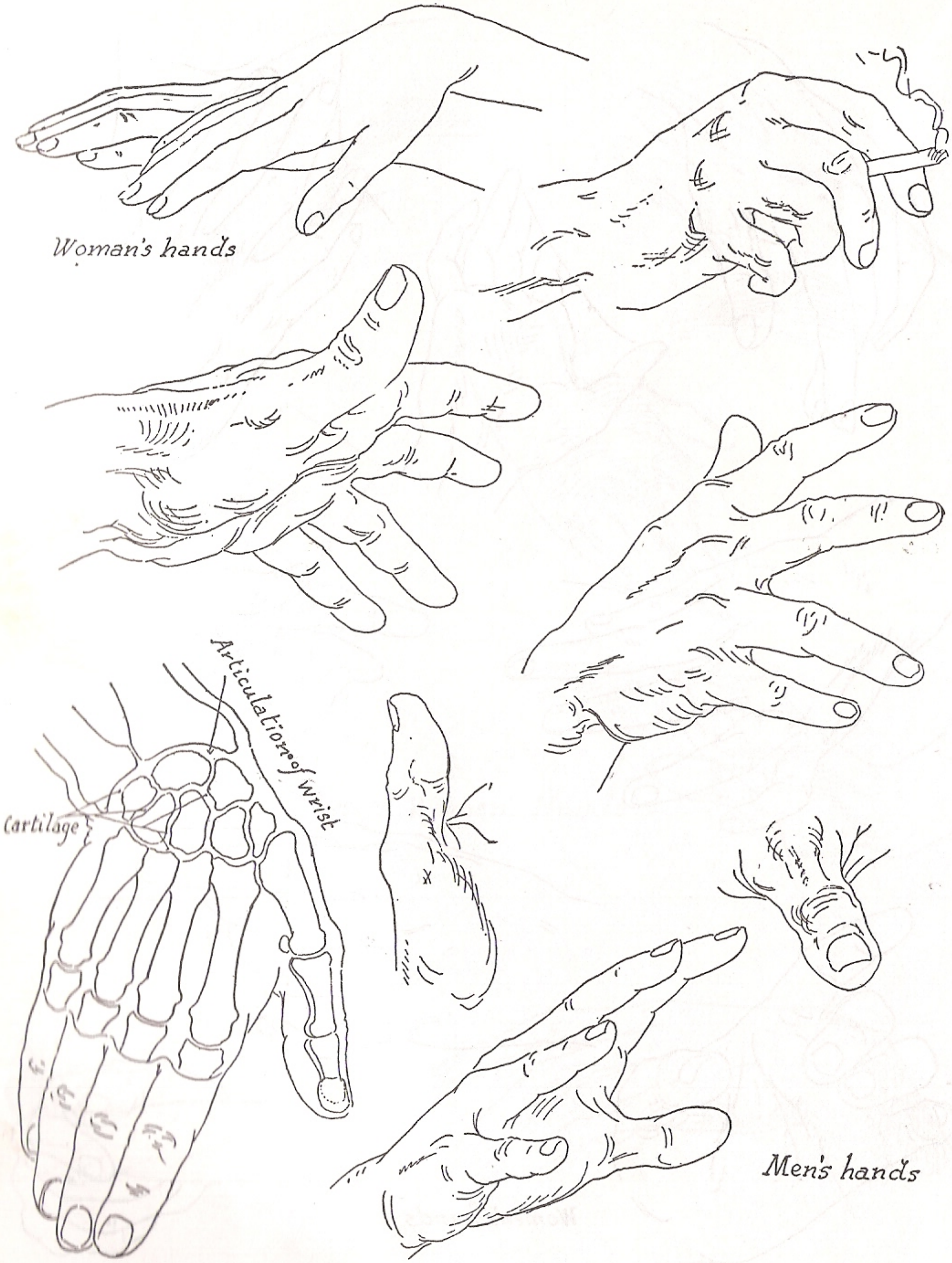


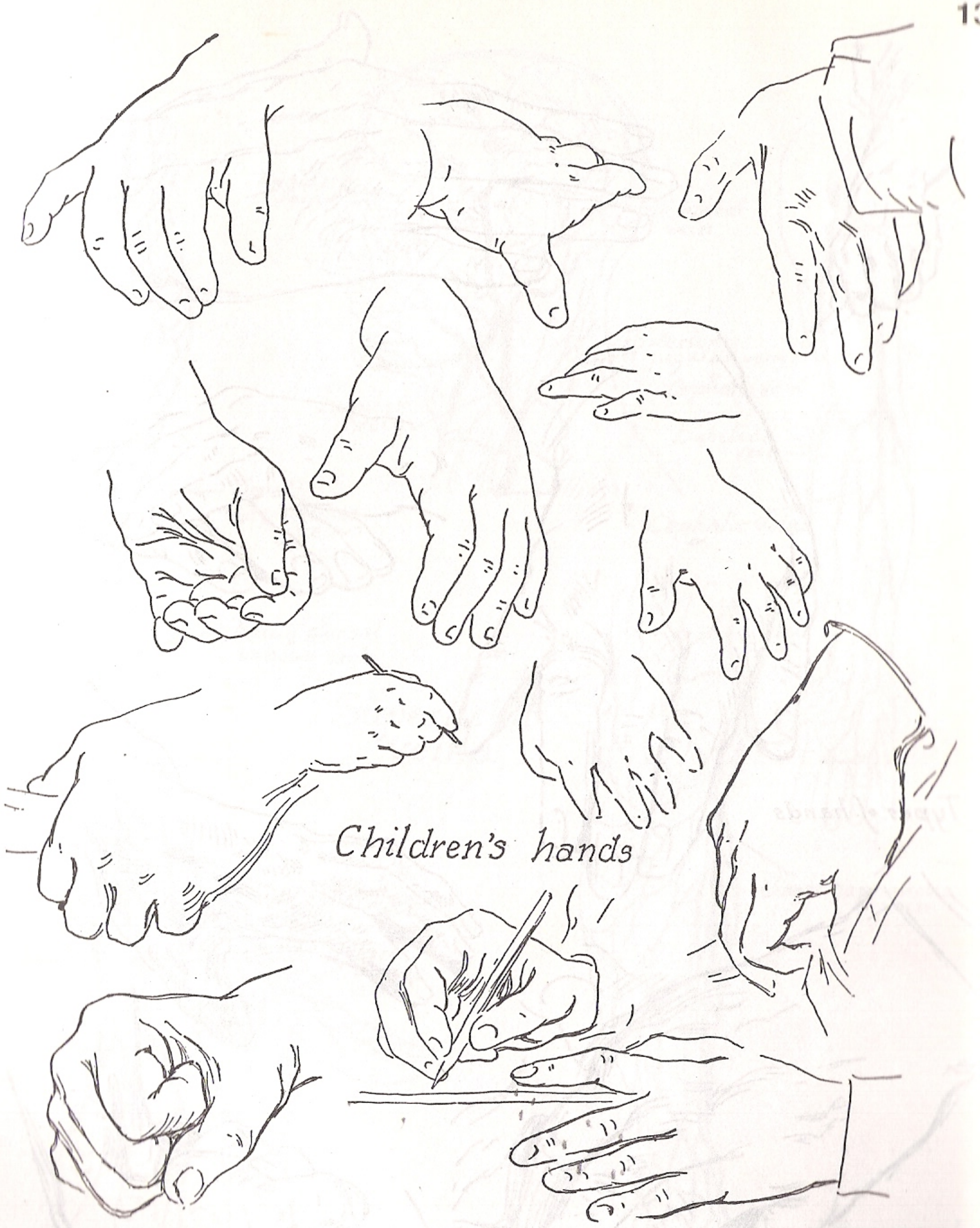


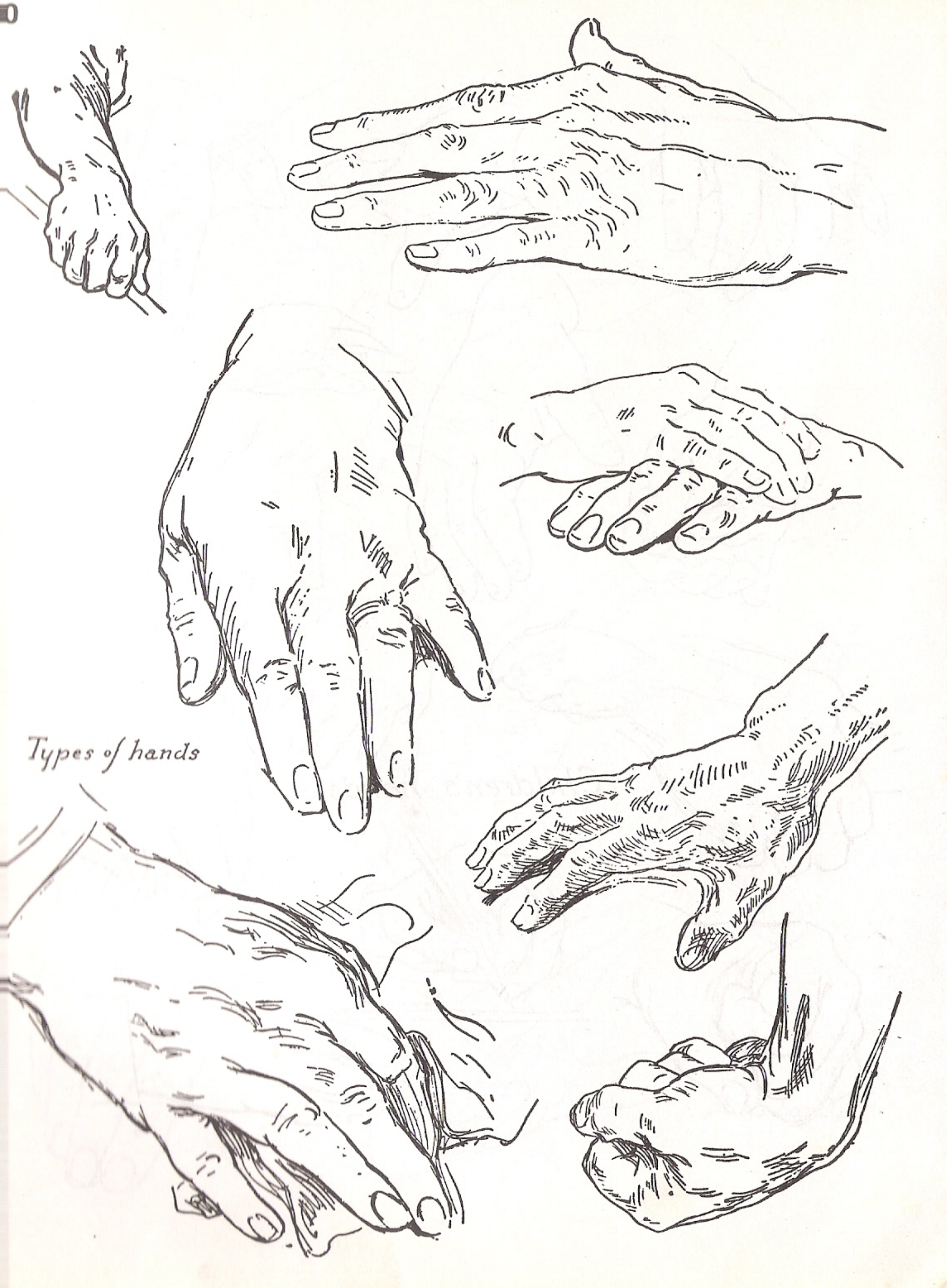
Studies of Women's Hands



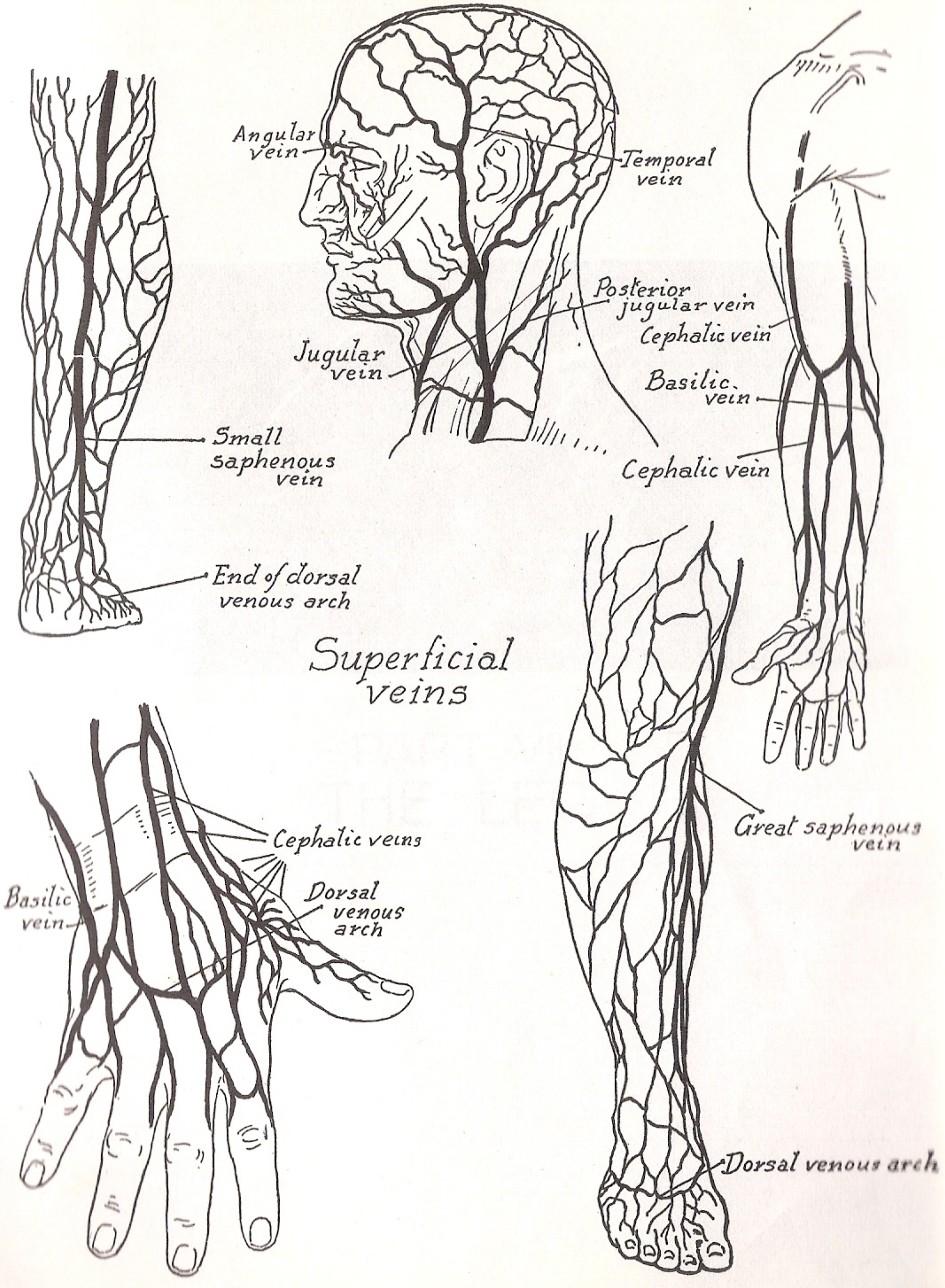
Women's hands


Woman's hands
Articulation of wrist
Cartilage
Men's hands


Children's hands

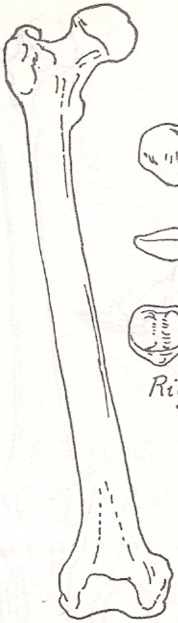


Types of hands

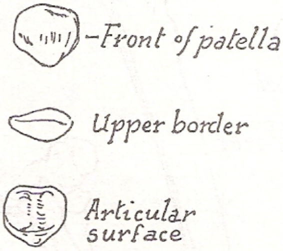

Angular vein
Temporal vein
Posterior jugular vein
Cephalic vein
Jugular vein
Basilic vein
Small saphenous vein
Cephalic vein
End of dorsal venous arch
Cephalic veins
Basilic vein
Dorsal venous arch
Great saphenous vein
Dorsal venous arch

Superficial veins

PART VII
THE LEG

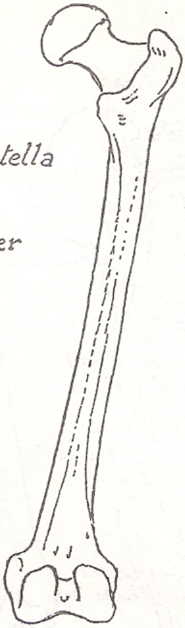


Front of femur
Right leg

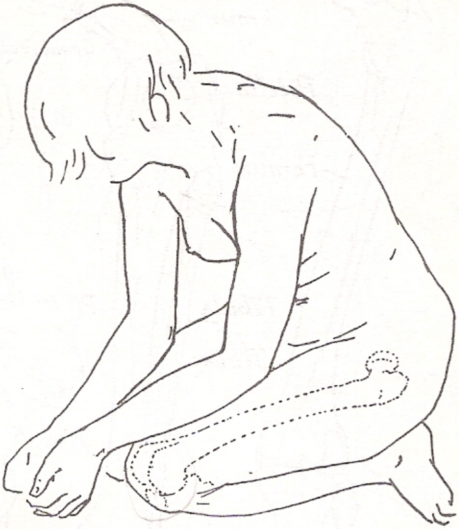


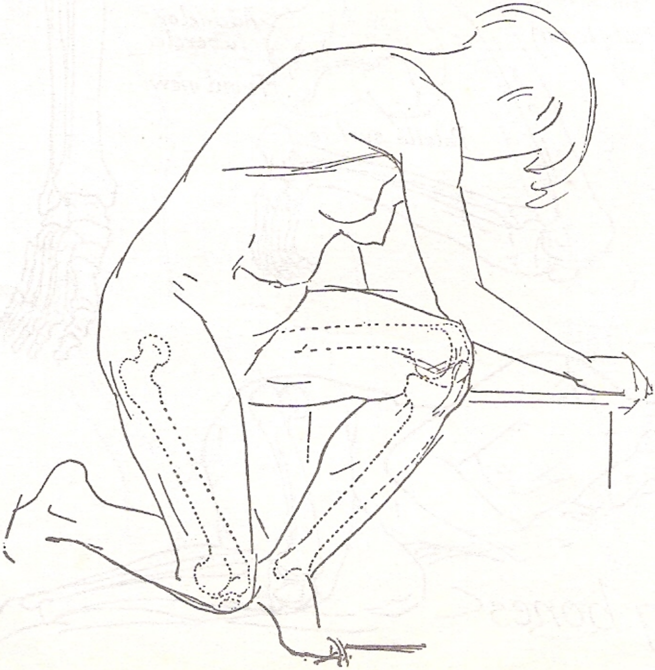
-Front of patella
Upper border
Articular surface

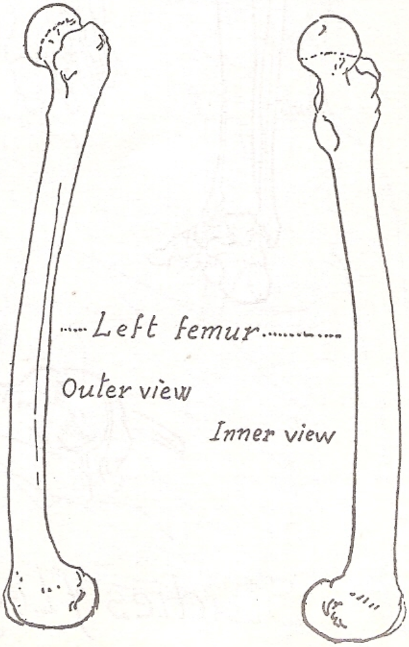
Right patella



Back of right femur



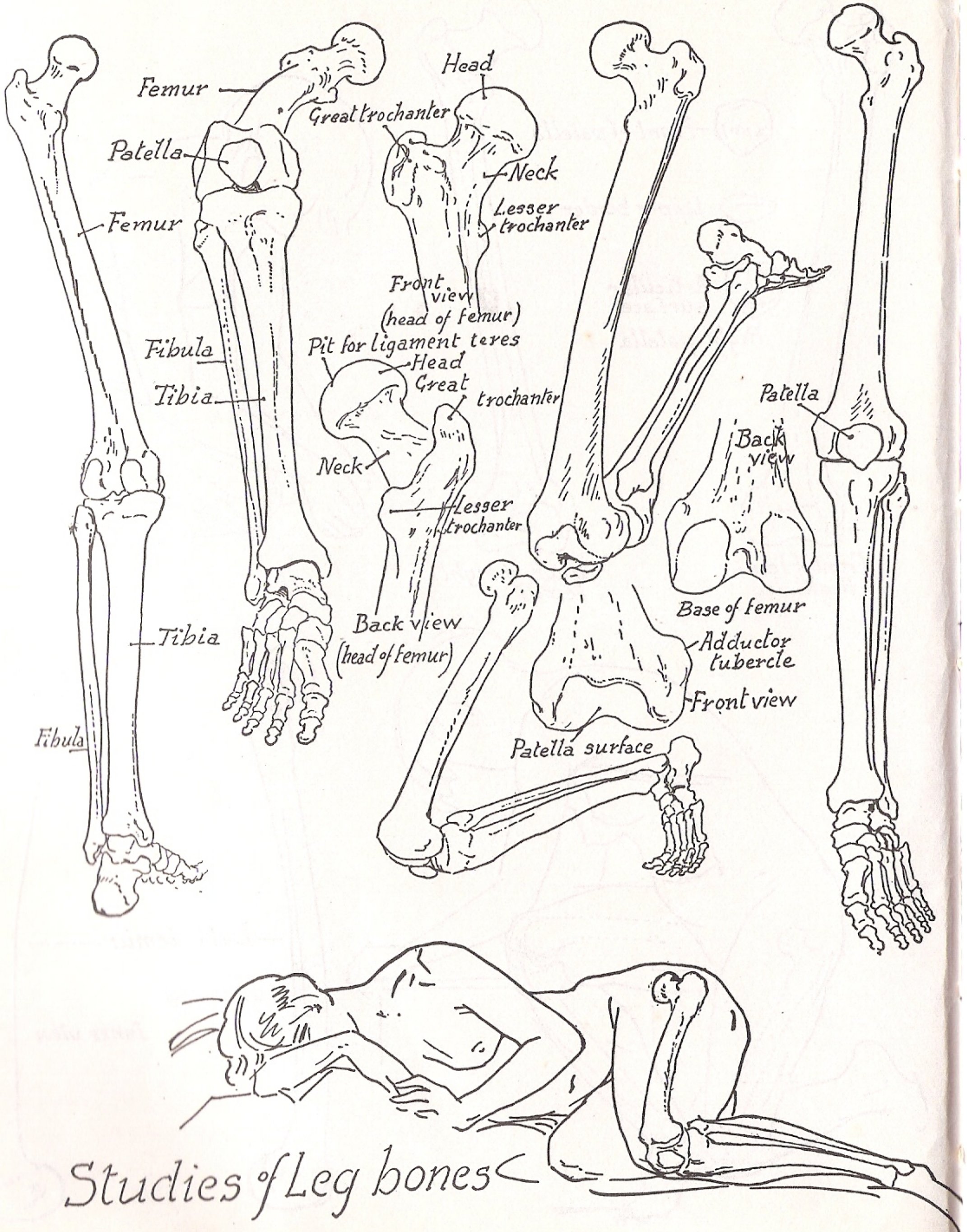




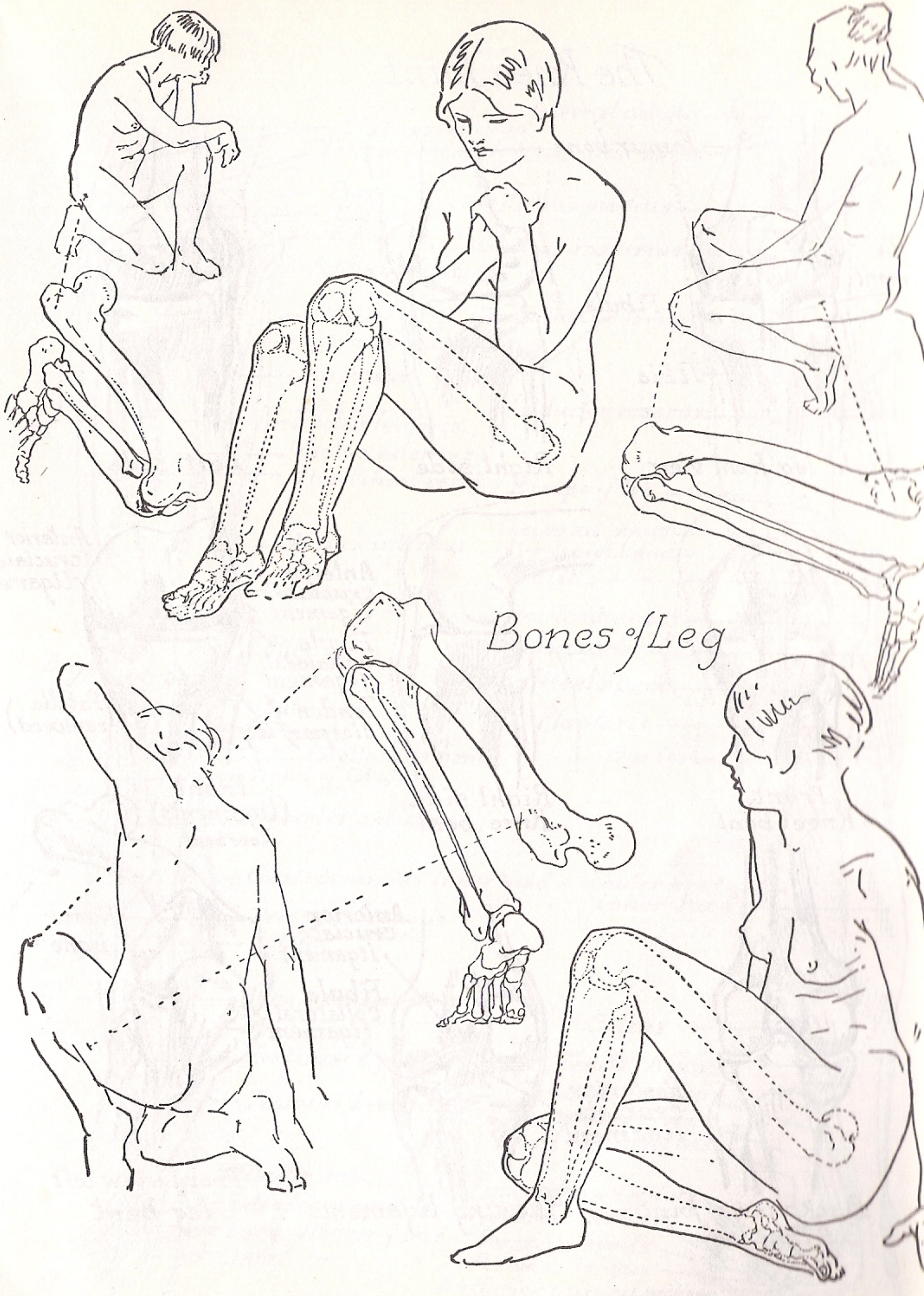
Left femur

Outer view

Inner view

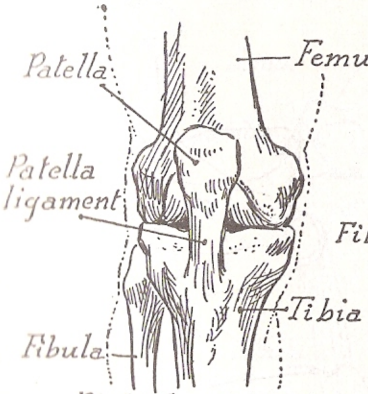

Femur
Patella
Femur
Fibula
Tibia
Tibia
Fibula
Head
Great trochanter
Neck
Lesser trochanter
Front view (head of femur)
Pit for ligament teres
Head
Great trochanter
Neck
Lesser trochanter
Back view (head of femur)
Patella
Back view
Base of femur
Adductor tubercle
Front view
Patella surface

Studies of Leg bones

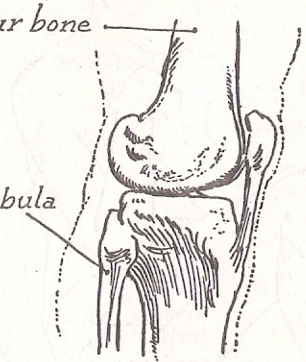


Bones of Leg

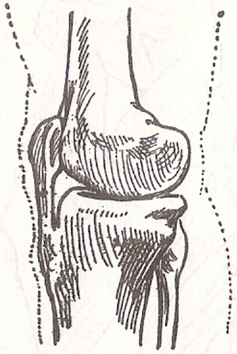
The Knee Joint


Patella
Femur bone
Patella ligament
Tibia
Fibula

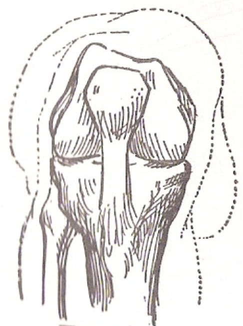
Right leg, front view



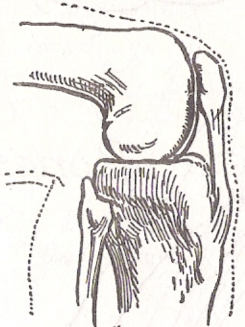
Right side



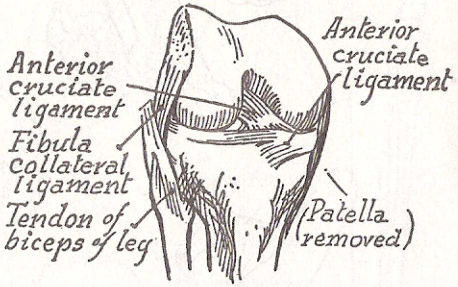
Left side



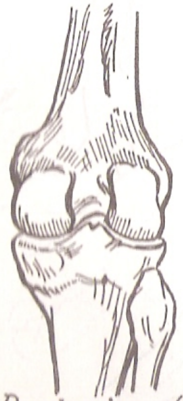
Front
Knee bent



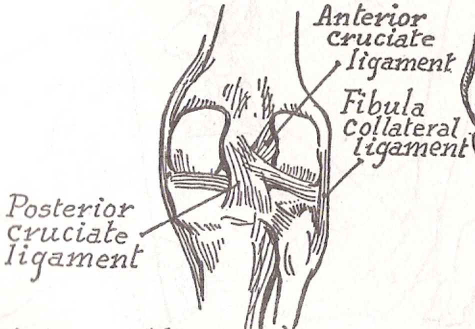
Right side
Knee bent


Anterior cruciate ligament
Fibula collateral ligament
Tendon of biceps of leg
Anterior cruciate ligament
(Patella removed)

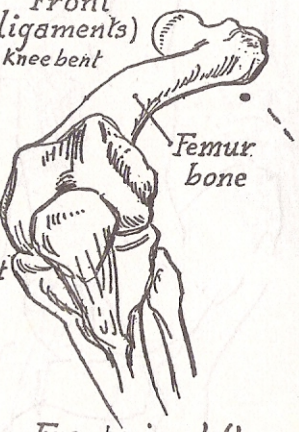
Front
(ligaments)
Knee bent



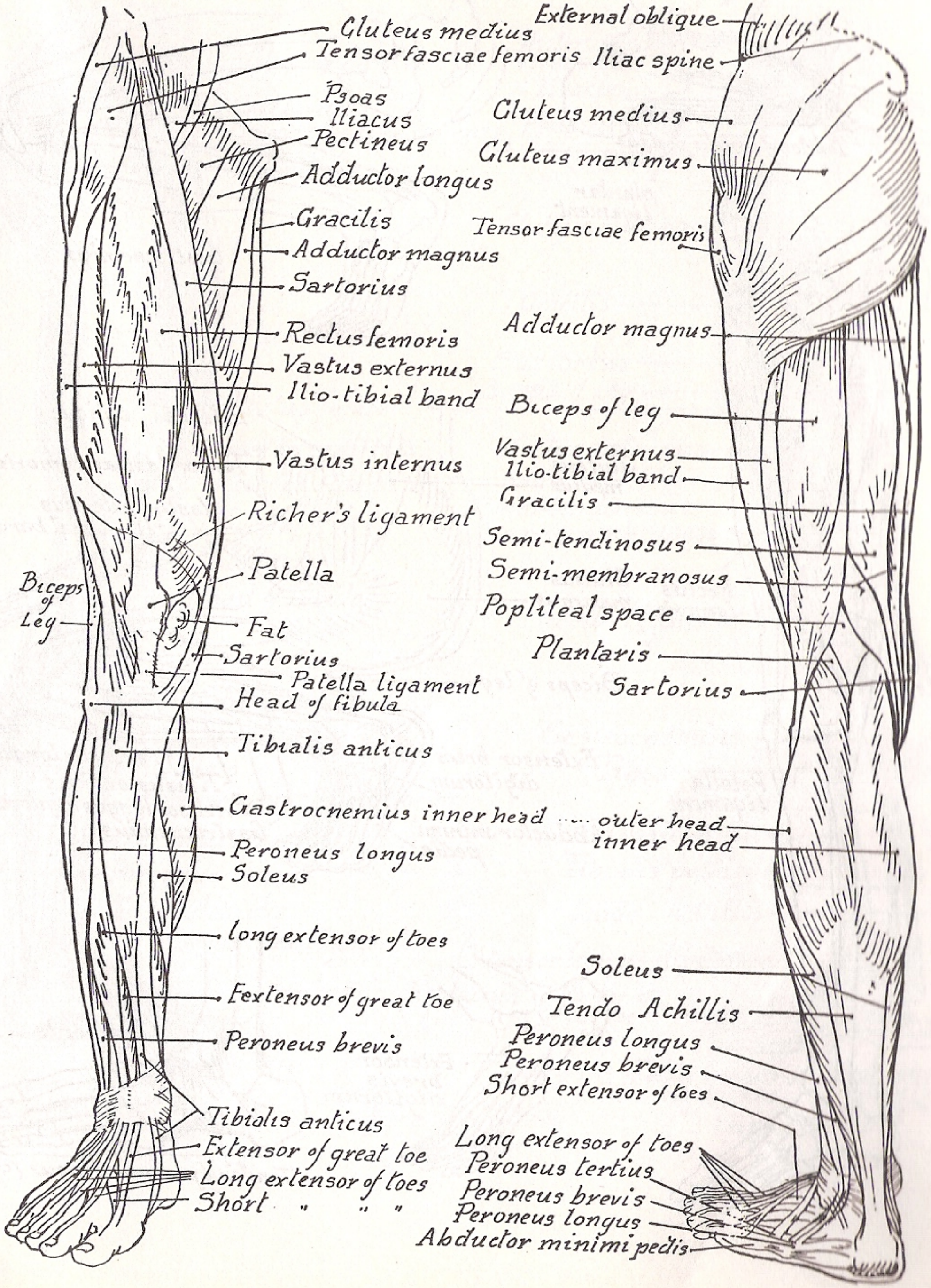
Back view of joint
Right leg

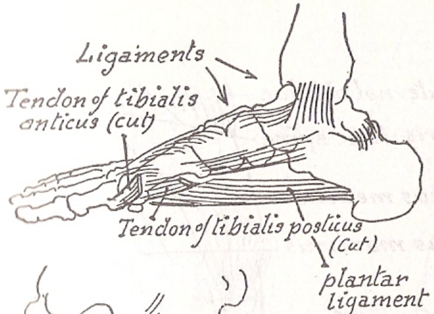

Posterior cruciate ligament
Anterior cruciate ligament
Fibula collateral ligament

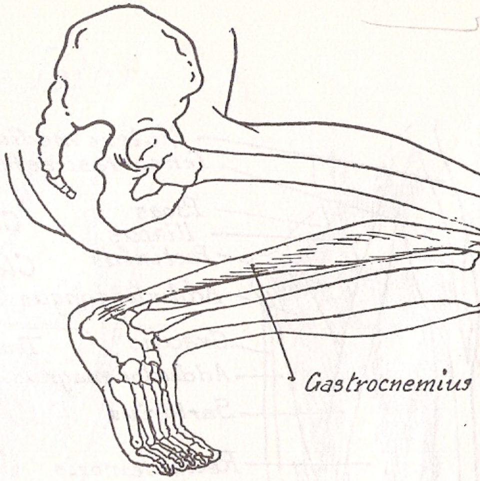
Showing ligaments

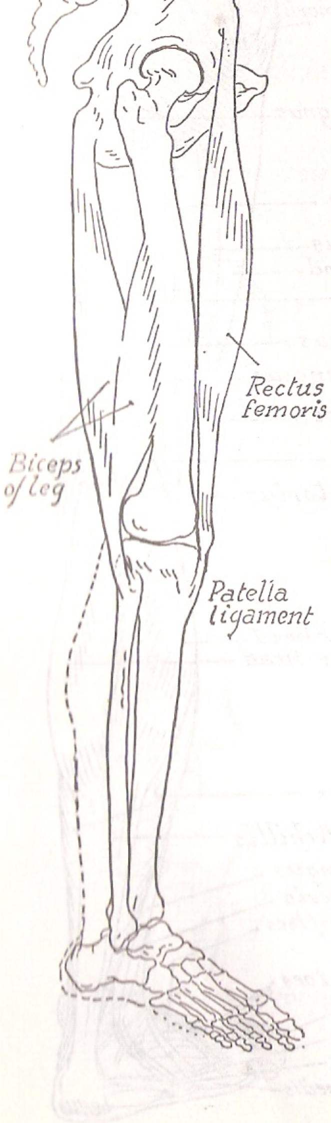


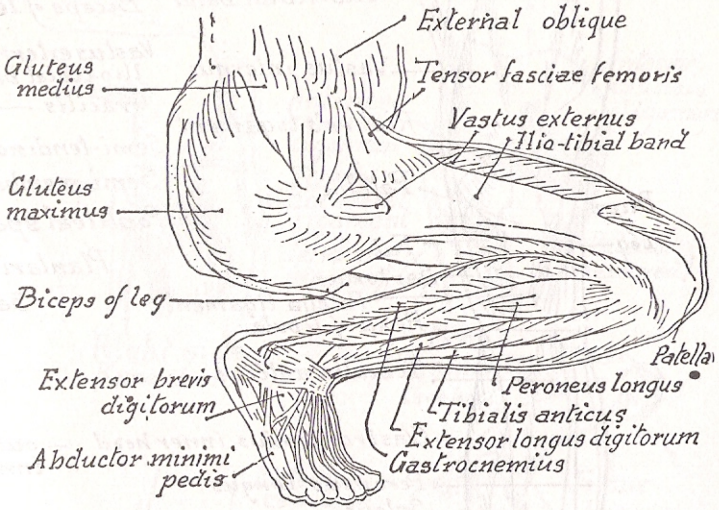
Front view left
leg bent

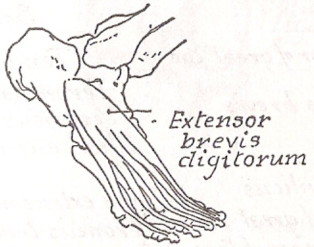

Gluteus medius
Tensor fasciae femoris
Psoas
Iliacus
Pectineus
Adductor longus
Gracilis
Adductor magnus
Sartorius
Rectus femoris
Vastus externus
Ilio-tibial band
Vastus internus
Richer's ligament
Patella
Biceps of Leg
Fat
Sartorius
Patella ligament
Head of fibula
Tibialis anticus
Gastrocnemius inner head
Peroneus longus
Soleus
long extensor of toes
Extensor of great toe
Peroneus brevis
Tibialis anticus
Extensor of great toe
Long extensor of toes
Short " " "
External oblique
Iliac spine
Gluteus medius
Gluteus maximus
Tensor fasciae femoris
Adductor magnus
Biceps of leg
Vastus externus
Ilio-tibial band
Gracilis
Semi-tendinosus
Semi-membranosus
Popliteal space
Plantaris
Sartorius
outer head
inner head
Soleus
Tendo Achillis
Peroneus longus
Peroneus brevis
Short extensor of toes
Long extensor of toes
Peroneus tertius
Peroneus brevis
Peroneus longus
Abductor minimi pedis

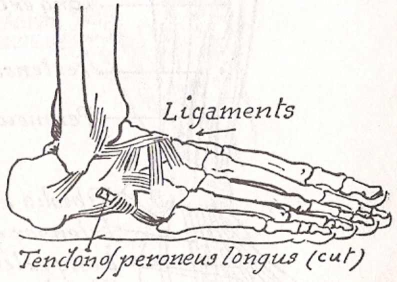

Ligaments
Tendon of tibialis anticus (cut)
Tendon of tibialis posticus (Cut)
plantar ligament

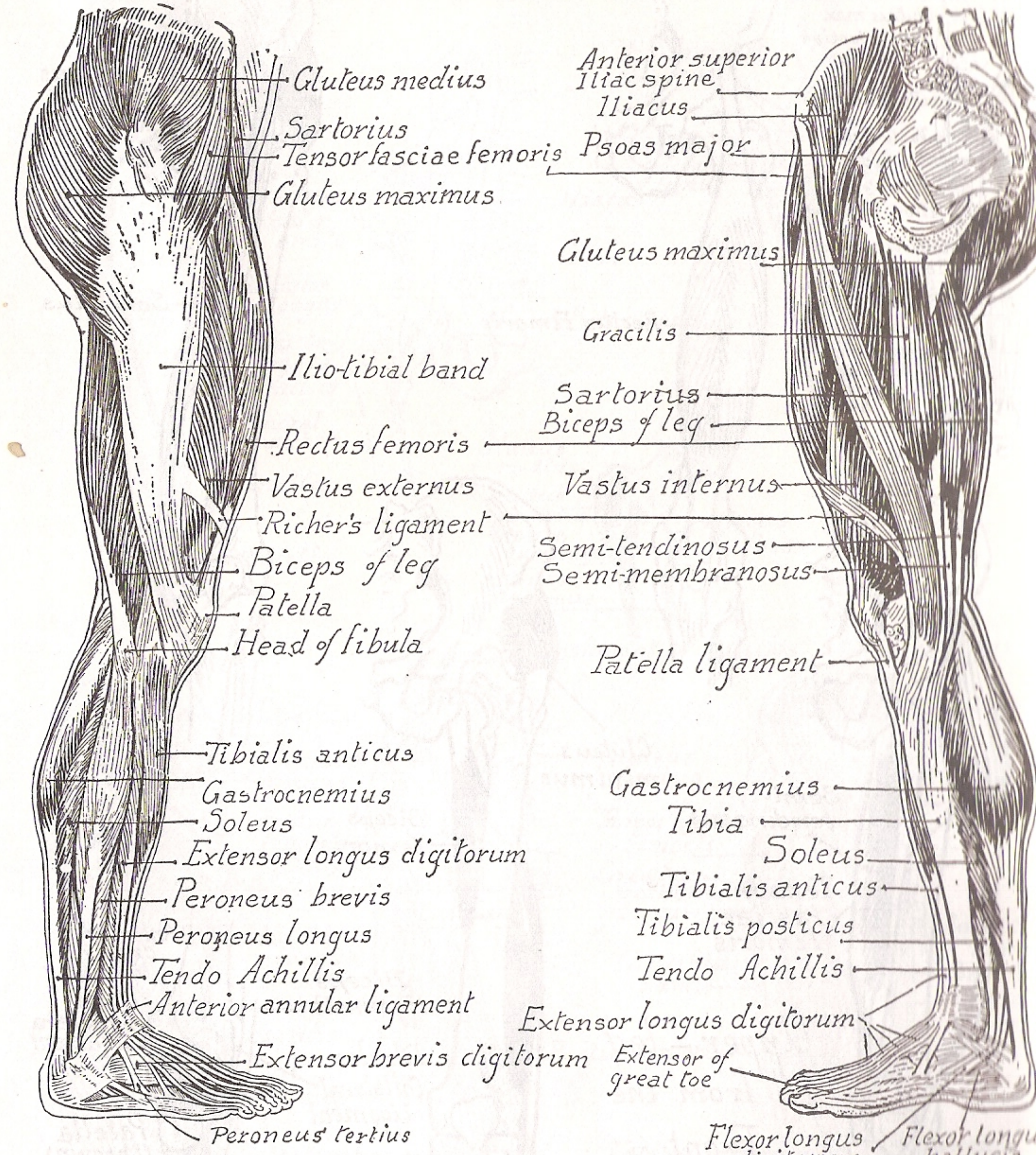

Gastrocnemius


Rectus femoris
Biceps of leg
Patella ligament

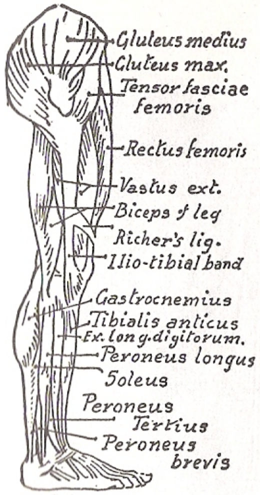

External oblique
Tensor fasciae femoris
Gluteus medius
Vastus externus
Ilio-tibial band
Gluteus maximus
Biceps of leg
Patella
Extensor brevis digitorum
Peroneus longus
Tibialis anticus
Extensor longus digitorum
Abductor minimi pedis
Gastrocnemius


Extensor brevis digitorum

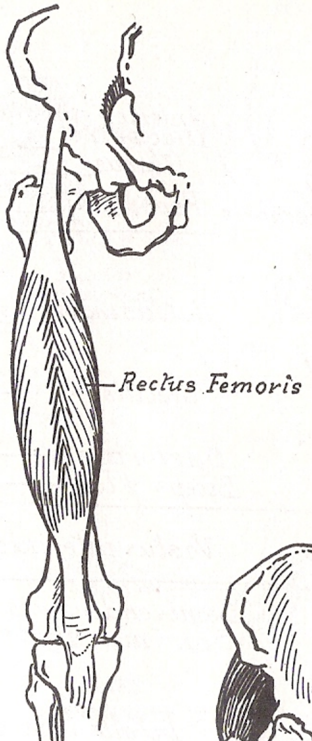

Ligaments
Tendon of peroneus longus (cut)

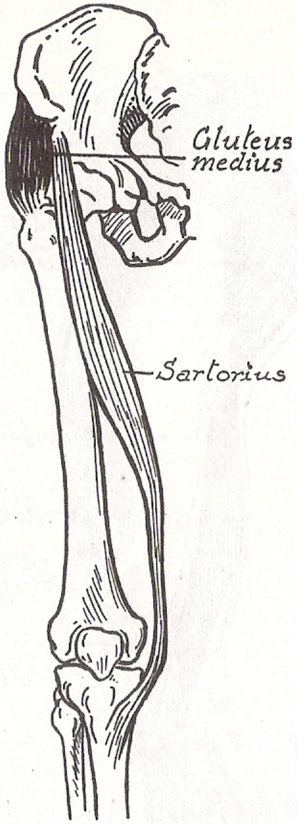

Gluteus medius
Sartorius
Tensor fasciae femoris
Gluteus maximus
Ilio-tibial band
Rectus femoris
Vastus externus
Richer's ligament
Biceps of leg
Patella
Head of fibula
Tibialis anticus
Gastrocnemius
Soleus
Extensor longus digitorum
Peroneus brevis
Peroneus longus
Tendo Achillis
Anterior annular ligament
Extensor brevis digitorum
Peroneus tertius
Anterior superior Iliac spine
Iliacus
Psoas major
Gluteus maximus
Gracilis
Sartorius
Biceps of leg
Vastus internus
Semi-tendinosus
Semi-membranosus
Patella ligament
Gastrocnemius
Tibia
Soleus
Tibialis anticus
Tibialis posticus
Tendo Achillis
Extensor longus digitorum
Extensor of great toe
Flexor longus digitorum
Flexor longus hallucis (big toe)

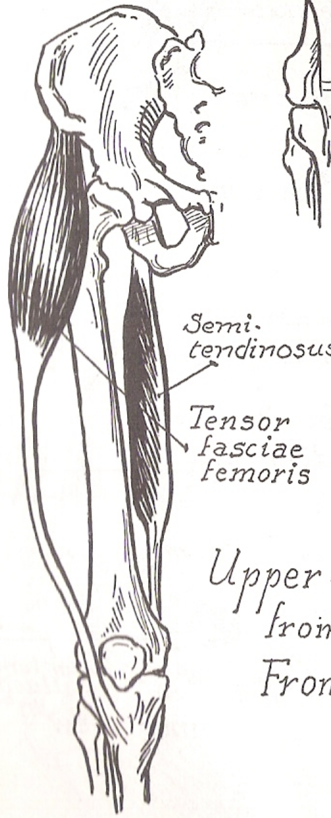
Outer view The leg Inner view


Gluteus medius
Gluteus max.
Tensor fasciae femoris
Rectus femoris
Vastus ext.
Biceps of leg
Richer's lig.
Ilio-tibial band
Gastrocnemius
Tibialis anticus
Ex. long. digitorum.
Peroneus longus
Soleus
Peroneus Tertius
Peroneus brevis

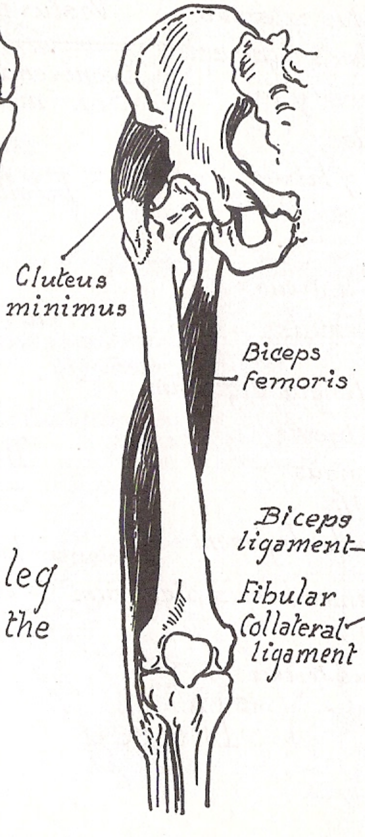
Side View

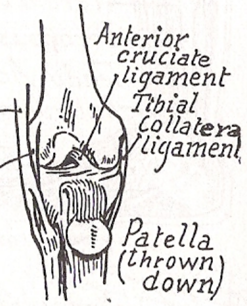

Rectus Femoris

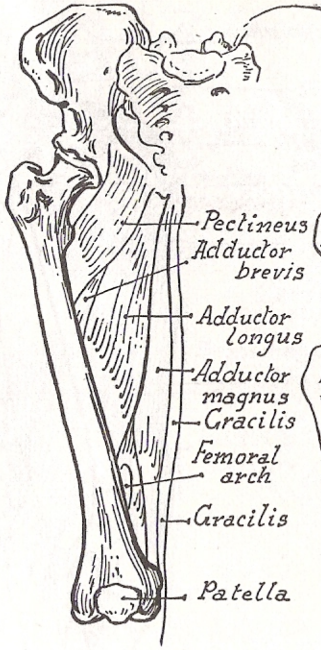

Gluteus medius
Sartorius

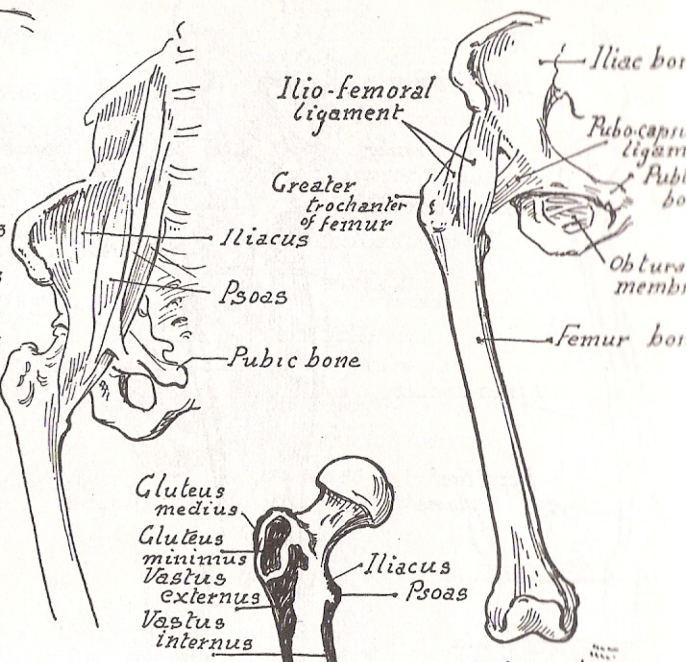

Semi-tendinosus
Tensor fasciae femoris

Upper-leg from the Front

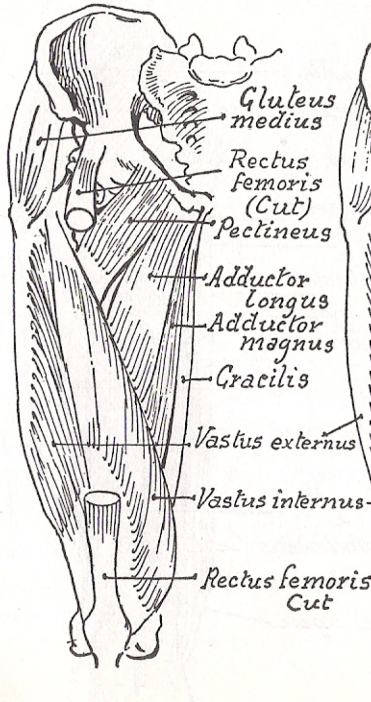

Cluteus minimus
Biceps femoris

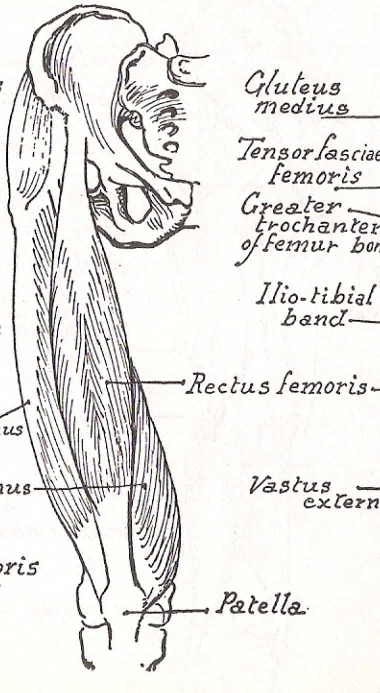

Anterior cruciate ligament
Tibial collatera ligament
Biceps ligament
Fibular Collateral ligament
Patella (thrown down)

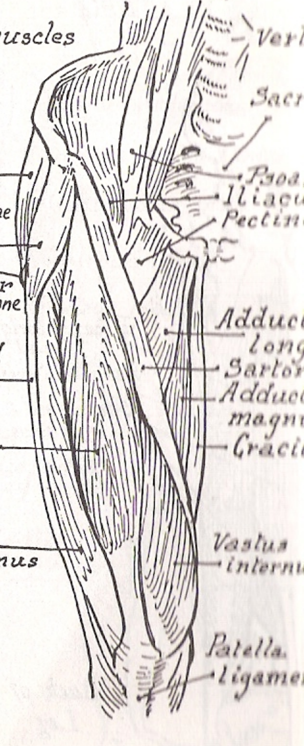

Pectineus
Adductor brevis
Adductor longus
Adductor magnus
Gracilis
Femoral arch
Gracilis
Patella

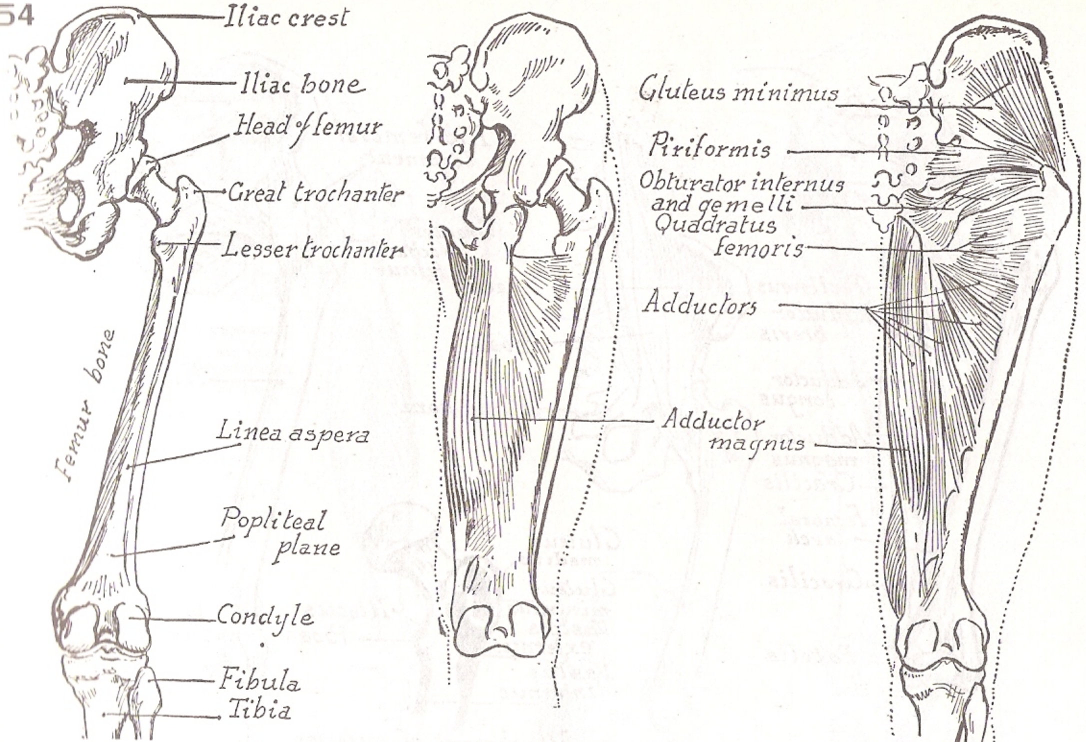

Iliacus
Psoas
Pubic bone
Ilio-femoral ligament
Greater trochanter of femur
Iliac bo
Pubo-caps ligam
Pub bo
Obtur membr
Femur bo
Gluteus medius
Gluteus minimus
Vastus externus
Vastus internus
Iliacus
Psoas

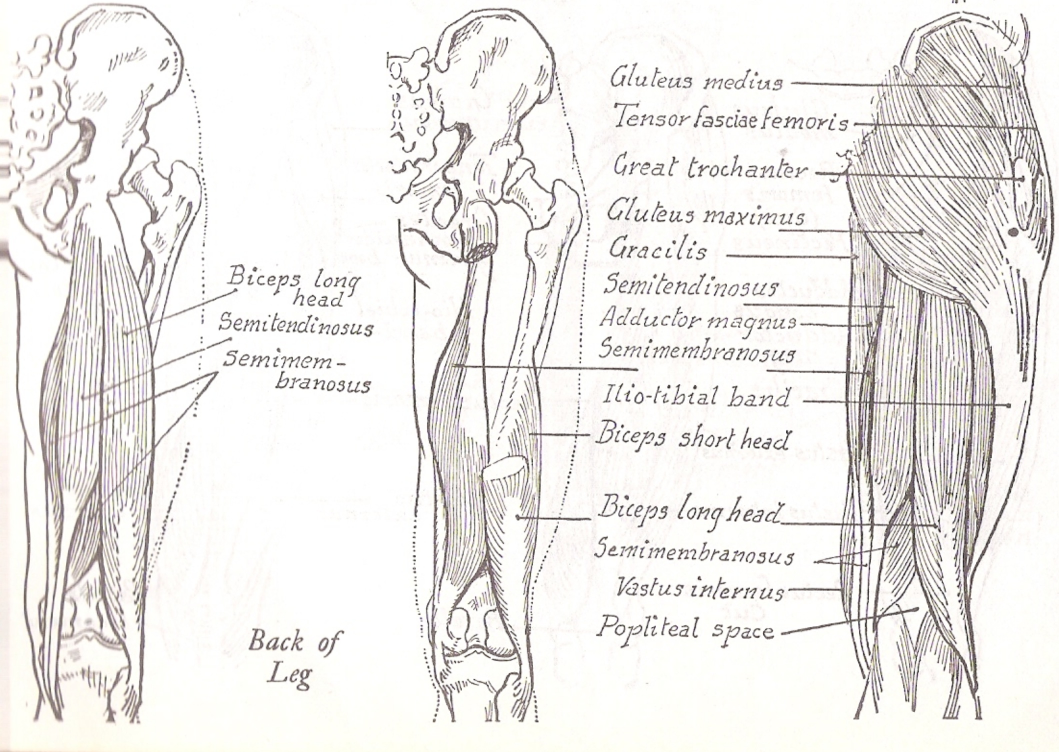
Attachment of muscles


Gluteus medius
Rectus femoris (Cut)
Pectineus
Adductor longus
Adductor magnus
Gracilis
Vastus externus
Vastus internus
Rectus femoris Cut

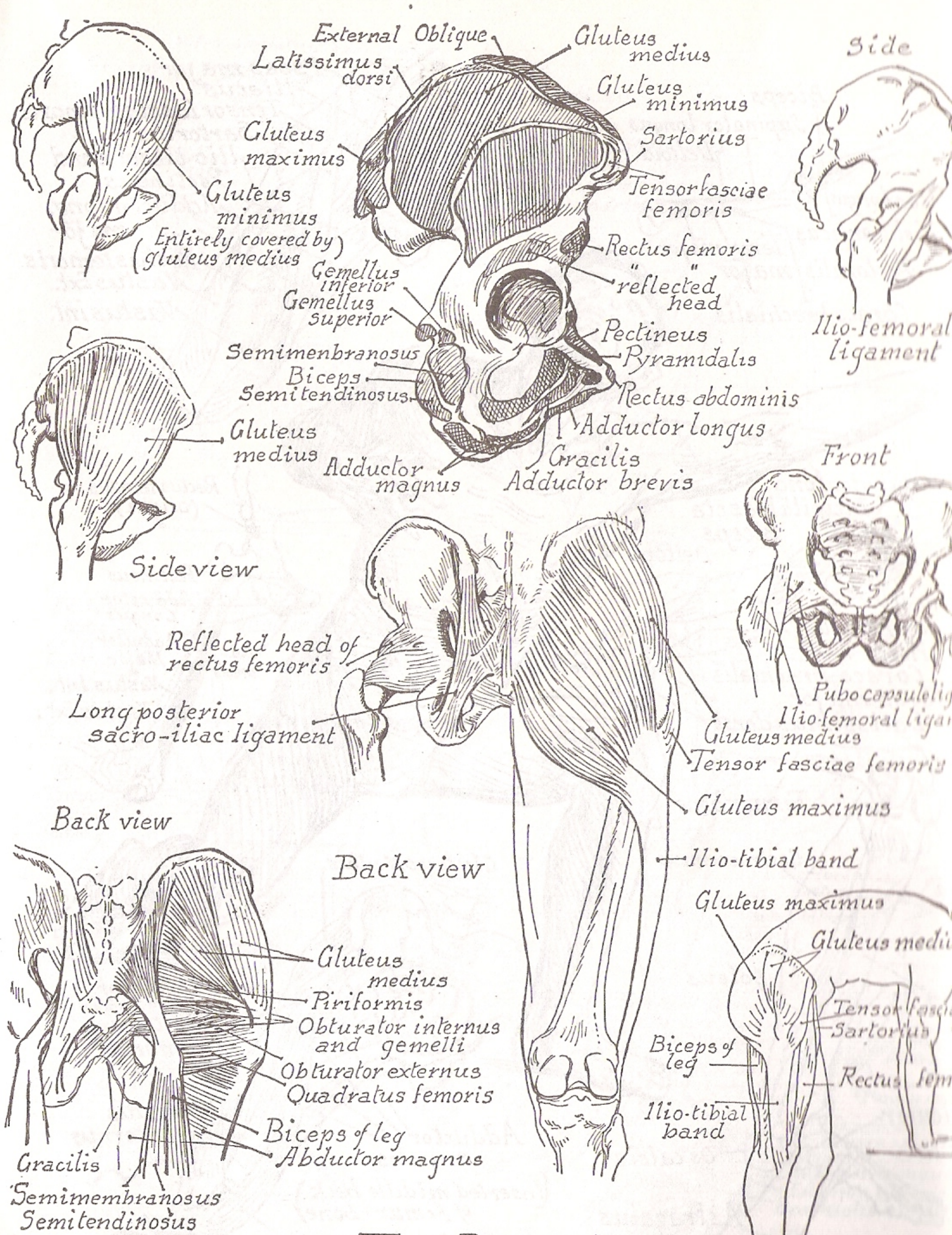

Rectus femoris
Patella


Verl
Sacr
Gluteus medius
Tensor fasciae femoris
Greater trochanter of femur bone
Ilio-tibial band
Psoa
Iliacu
Pectin
Adduc long
Sartor
Adduc magn
Graci
Vastus externus
Vastus intern
Patella ligamen

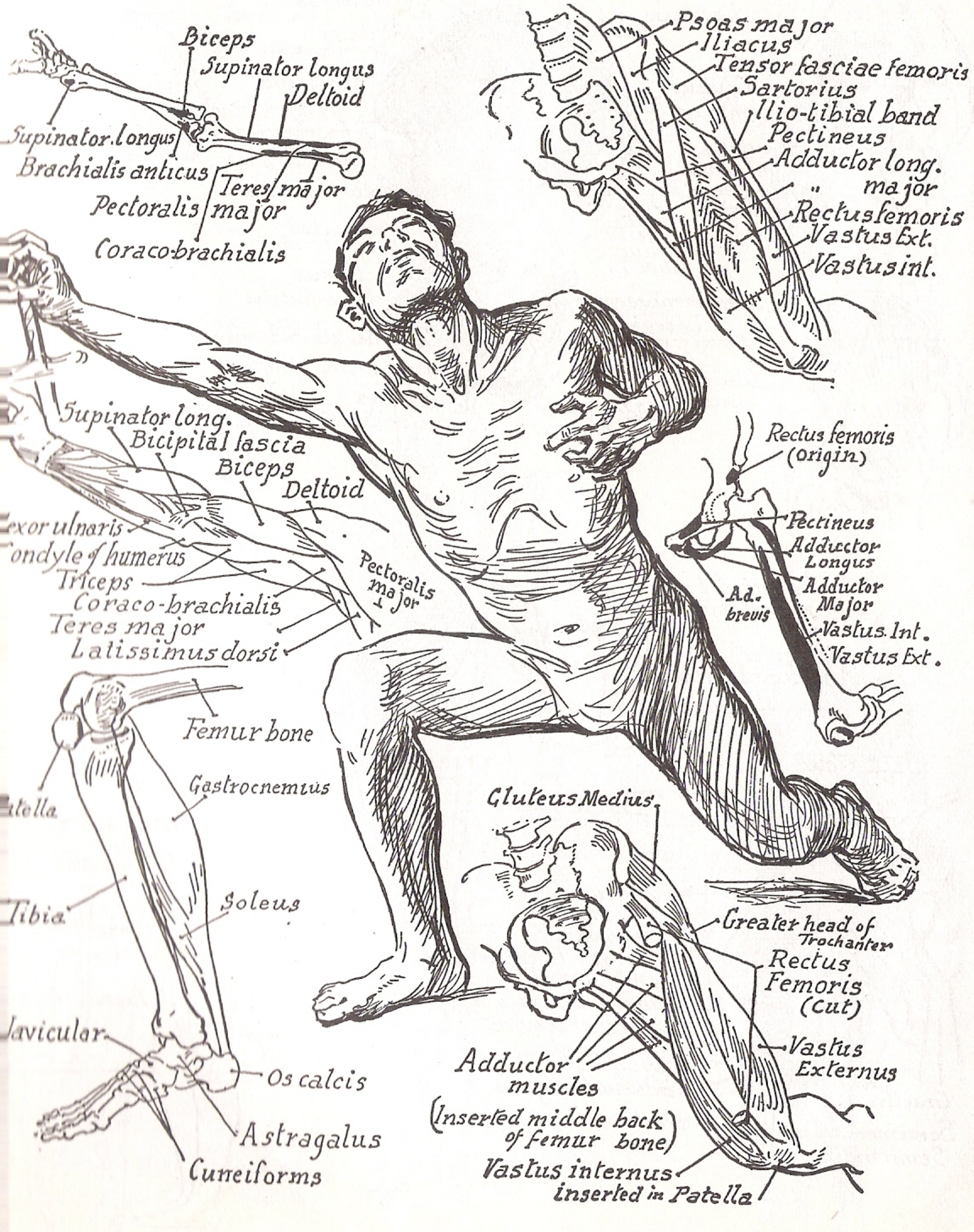

Iliac crest
Iliac bone
Head of femur
Great trochanter
Lesser trochanter
Femur bone
Linea aspera
Popliteal plane
Condyle
Fibula
Tibia
Gluteus minimus
Piriformis
Obturator internus and gemelli
Quadratus femoris
Adductors
Adductor magnus

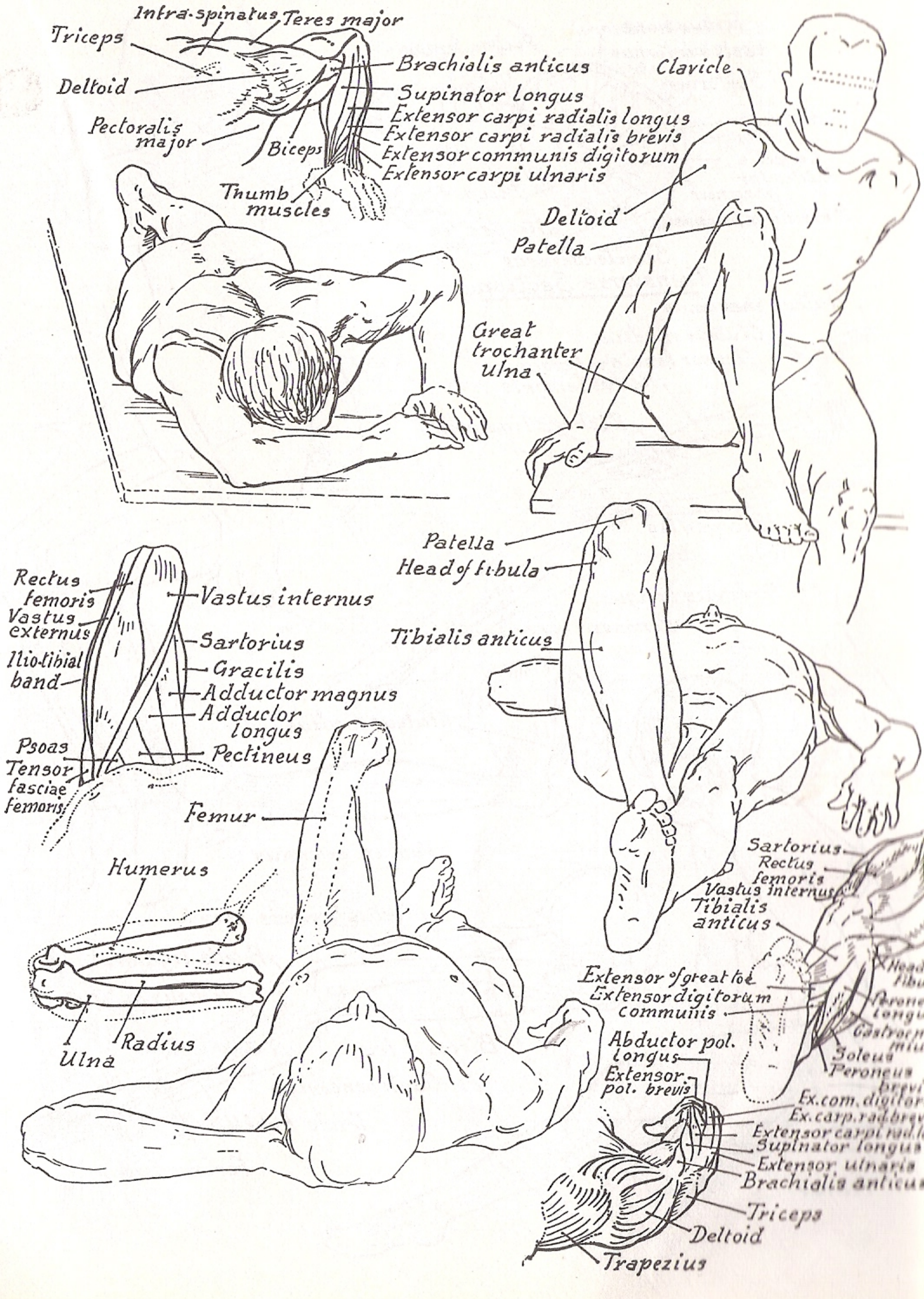

Biceps long head
Semitendinosus
Semimembranosus
Gluteus medius
Tensor fasciae femoris
Great trochanter
Gluteus maximus
Gracilis
Semitendinosus
Adductor magnus
Semimembranosus
Ilio-tibial band
Biceps short head
Biceps long head
Semimembranosus
Vastus internus
Popliteal space

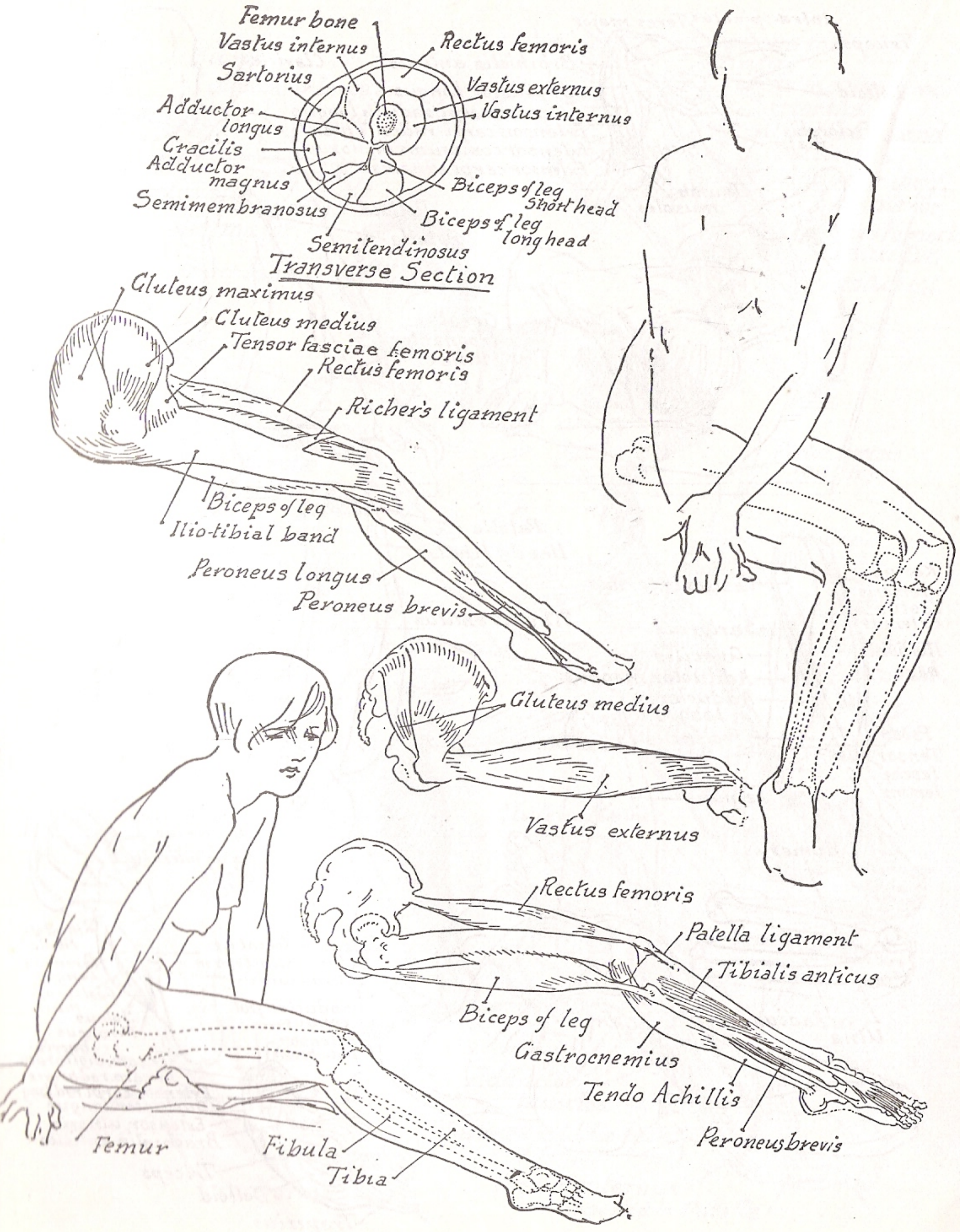
Back of Leg

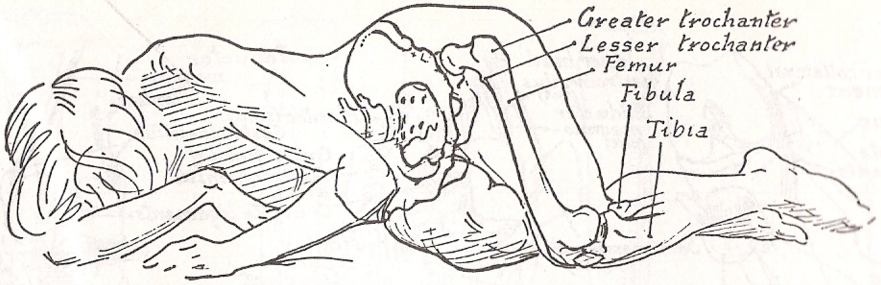

External Oblique
Latissimus dorsi
Gluteus medius
Gluteus minimus
Gluteus maximus
Sartorius
Tensor fasciae femoris
Gluteus minimus
(Entirely covered by gluteus medius)
Rectus femoris
" " reflected head
Gemellus inferior
Gemellus superior
Pectineus
Pyramidalis
Semimenbranosus
Biceps
Semitendinosus
Rectus abdominis
Gluteus medius
Adductor longus
Adductor magnus
Gracilis
Adductor brevis
Side view
Side
Ilio-femoral ligament
Front
Pubo capsulelig
Ilio-femoral liga
Reflected head of rectus femoris
Long posterior sacro-iliac ligament
Gluteus medius
Tensor fasciae femoris
Gluteus maximus
Ilio-tibial band
Back view
Back view
Gluteus medius
Piriformis
Obturator internus and gemelli
Obturator externus
Quadratus femoris
Biceps of leg
Abductor magnus
Gracilis
Semimembranosus
Semitendinosus
Gluteus maximus
Gluteus medi
Tensor fasci
Sartorius
Biceps of leg
Rectus fem
Ilio-tibial band

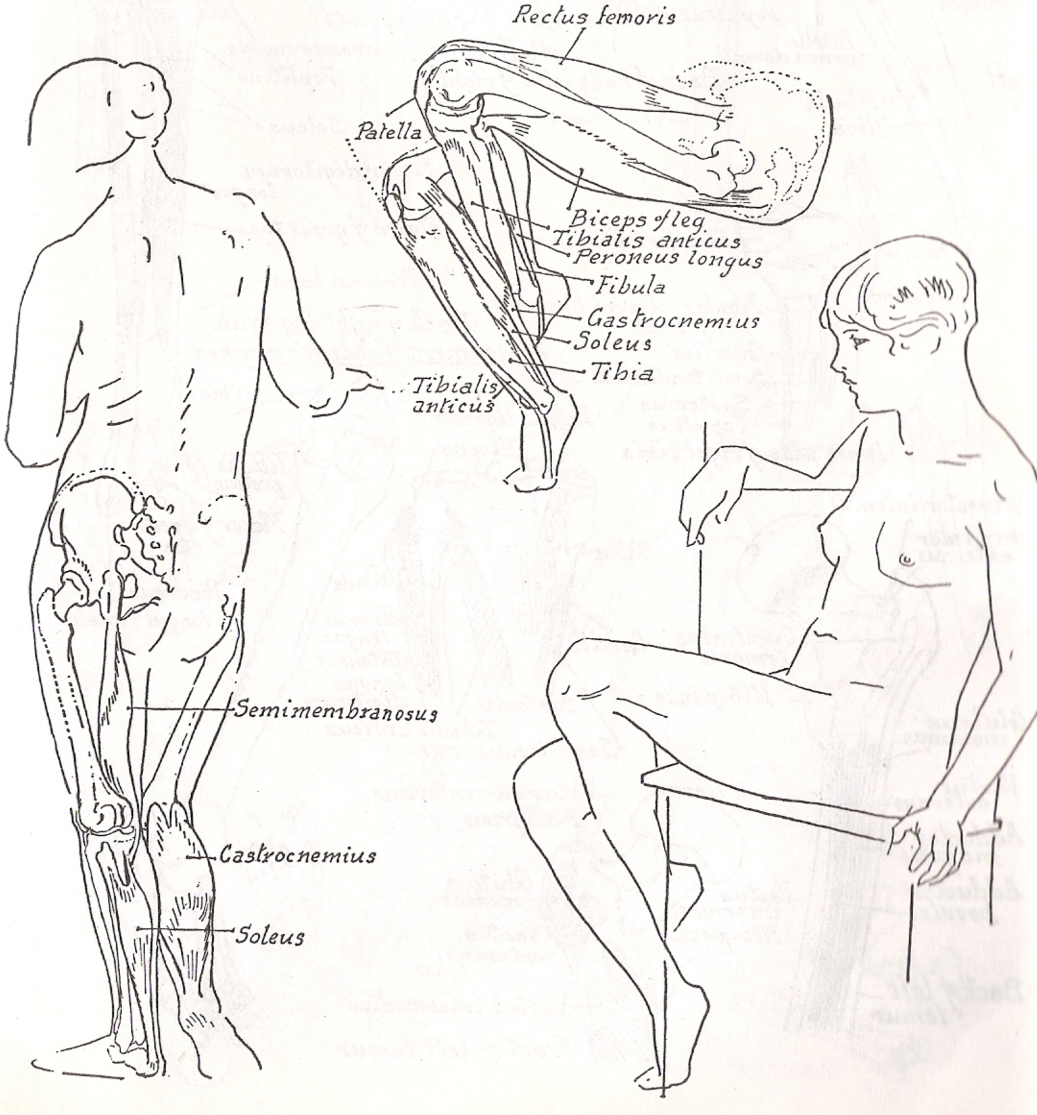
The Buttock

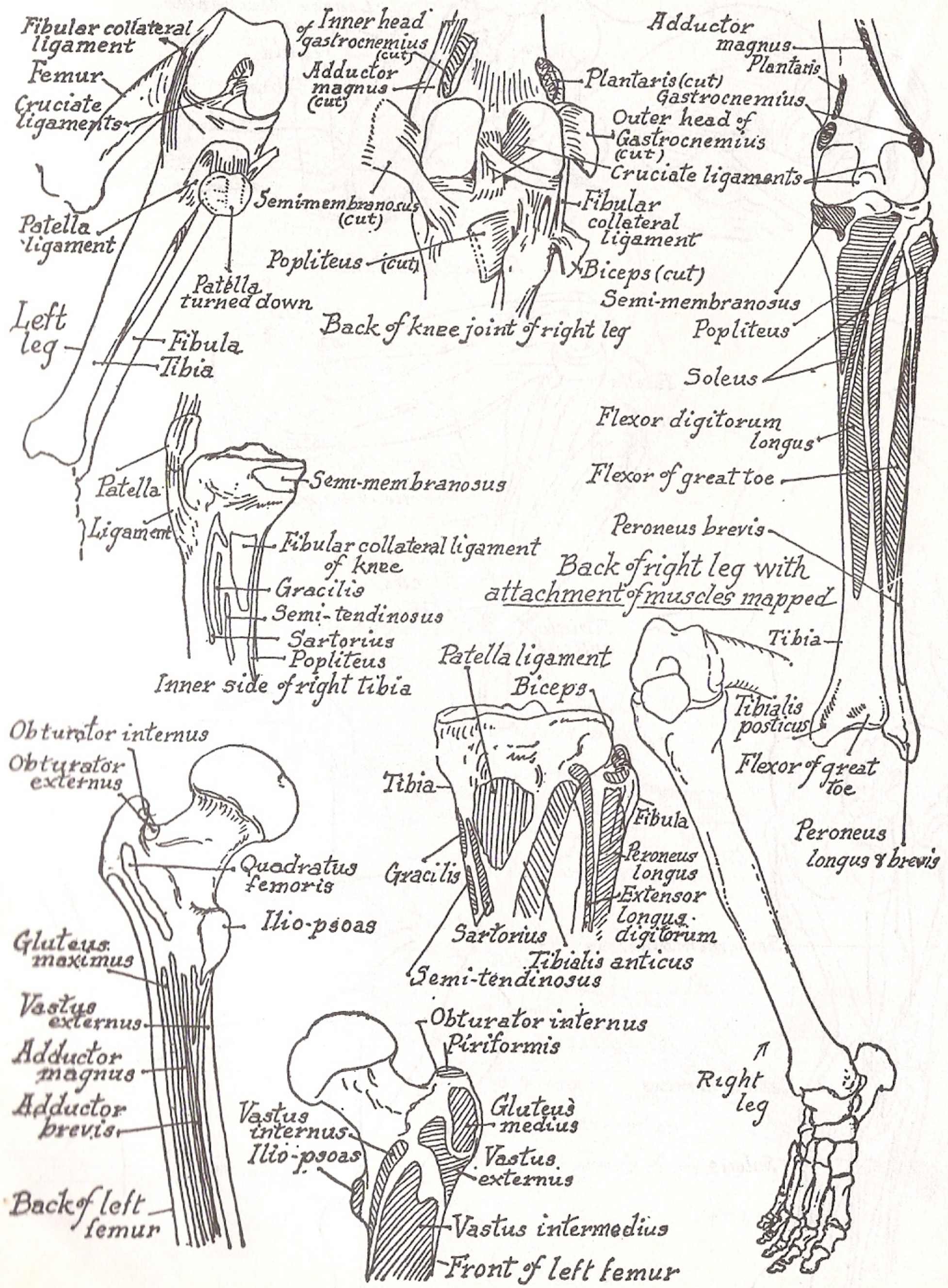

Biceps
Supinator longus
Deltoid
Supinator.longus
Brachialis anticus
Teres major
Pectoralis major
Coraco-brachialis
Psoas major
Iliacus
Tensor fasciae femoris
Sartorius
Ilio-tibial band
Pectineus
Adductor long.
" major
Rectus femoris
Vastus Ext.
Vastus int.
Supinator long.
Bicipital fascia
Biceps
Deltoid
exor ulnaris
ondyle of humerus
Triceps
Coraco-brachialis
Teres major
Latissimus dorsi
Pectoralis major
Rectus femoris (origin)
Pectineus
Adductor Longus
Adductor Major
Ad. brevis
Vastus. Int.
Vastus Ext.
Femur bone
atella
Gastrocnemius
Tibia
Soleus
avicular
Os calcis
Astragalus
Cuneiforms
Gluteus Medius
Greater head of Trochanter
Rectus Femoris (cut)
Vastus Externus
Adductor muscles
(Inserted middle back of femur bone)
Vastus internus inserted in Patella


Intra-spinatus
Teres major
Triceps
Deltoid
Pectoralis major
Biceps
Thumb muscles
Brachialis anticus
Supinator longus
Extensor carpi radialis longus
Extensor carpi radialis brevis
Extensor communis digitorum
Extensor carpi ulnaris
Clavicle
Deltoid
Patella
Great trochanter
Ulna
Patella
Head of fibula
Tibialis anticus
Rectus femoris
Vastus externus
Ilio-tibial band
Psoas
Tensor fasciae femoris
Vastus internus
Sartorius
Gracilis
Adductor magnus
Adductor longus
Pectineus
Femur
Humerus
Ulna
Radius
Sartorius
Rectus femoris
Vastus internus
Tibialis anticus
Head fibu
Peroneu longu
Gastrocn miu
Soleus
Peroneus brevi
Extensor of great toe
Extensor digitorum communis
Abductor pol. longus
Extensor pol. brevis
Ex.com. digitor
Ex.carp.rad.brev
Extensor carpi rad.l
Supinator longus
Extensor ulnaris
Brachialis anticus
Triceps
Deltoid
Trapezius


Femur bone
Vastus internus
Sartorius
Adductor longus
Cracilis
Adductor magnus
Semimembranosus
Rectus femoris
Vastus externus
Vastus internus
Biceps of leg short head
Biceps of leg long head
Semitendinosus
Transverse Section
Gluteus maximus
Cluteus medius
Tensor fasciae femoris
Rectus femoris
Richer's ligament
Biceps of leg
Ilio-tibial band
Peroneus longus
Peroneus brevis
Gluteus medius
Vastus externus
Rectus femoris
Patella ligament
Tibialis anticus
Biceps of leg
Gastrocnemius
Tendo Achillis
Peroneus brevis
Temur
Fibula
Tibia


Greater trochanter
Lesser trochanter
Femur
Fibula
Tibia


Rectus femoris
Patella
Biceps of leg
Tibialis anticus
Peroneus longus
Fibula
Gastrocnemius
Soleus
Tibia
Tibialis anticus
Semimembranosus
Gastrocnemius
Soleus


Back of knee joint of right leg

Left leg

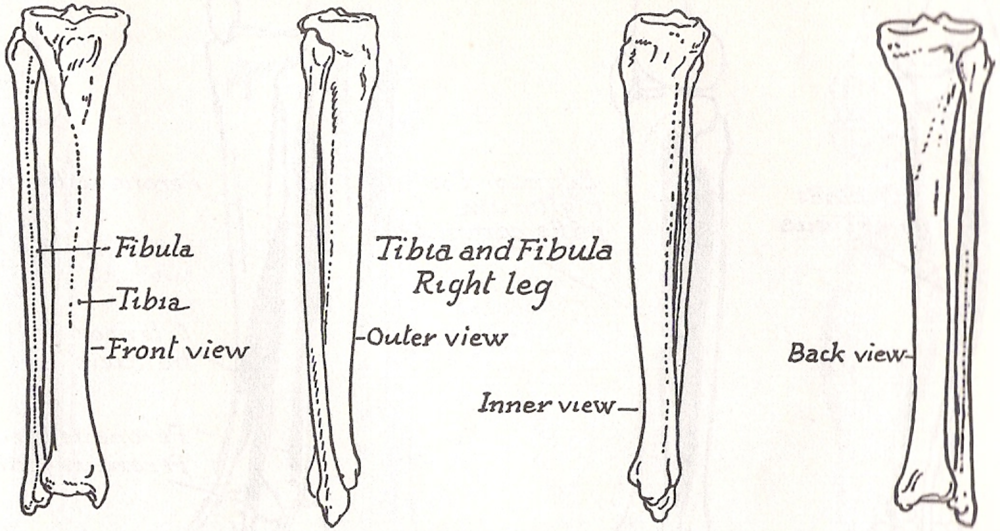
Inner side of right tibia

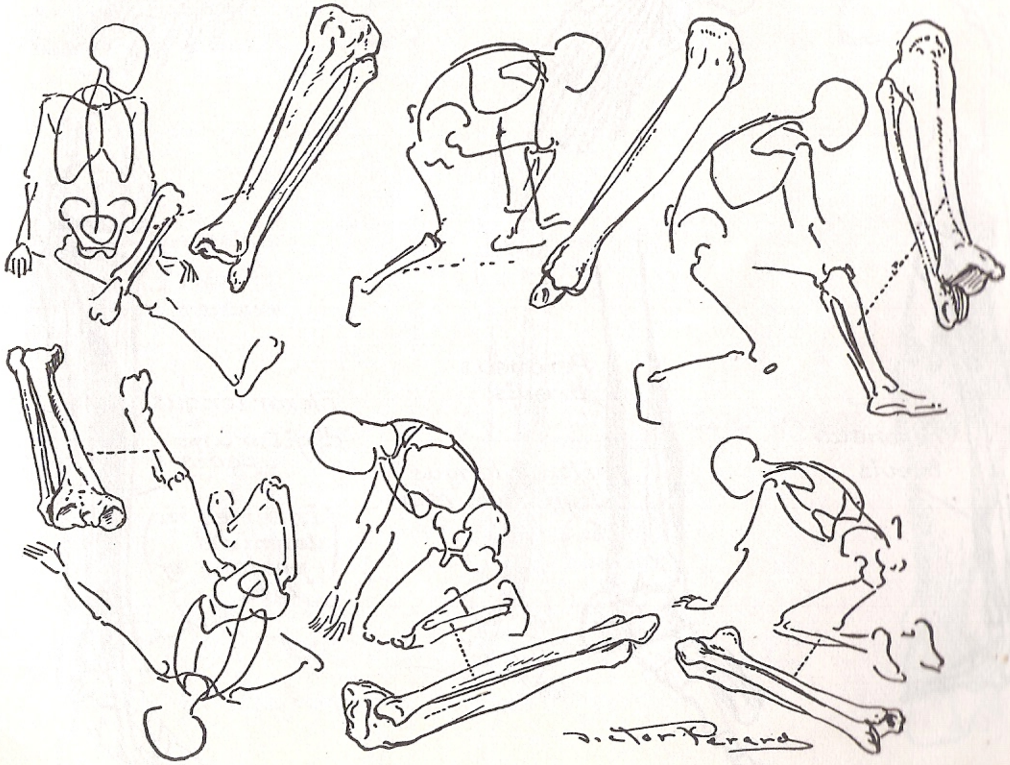
Back of right leg with attachment of muscles mapped

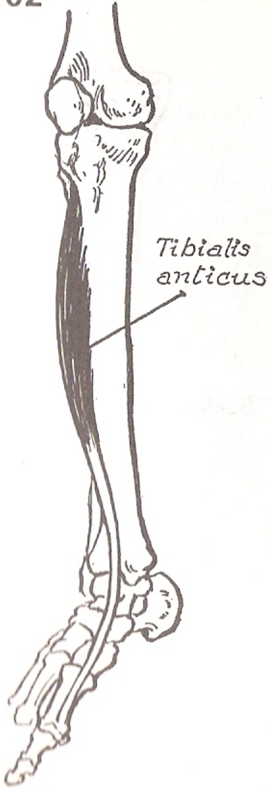
Right leg

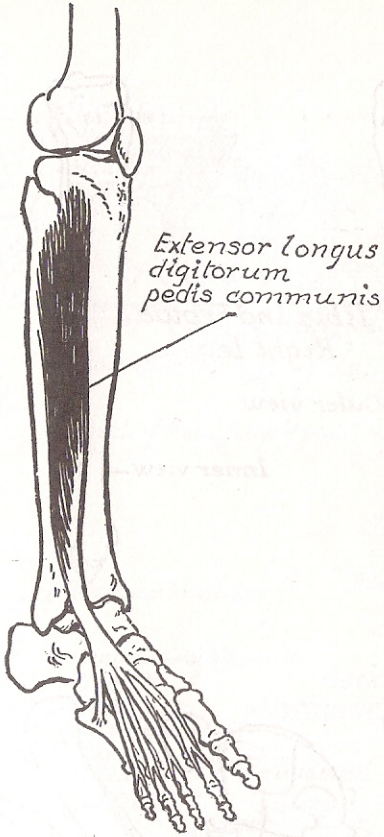
Back of left femur

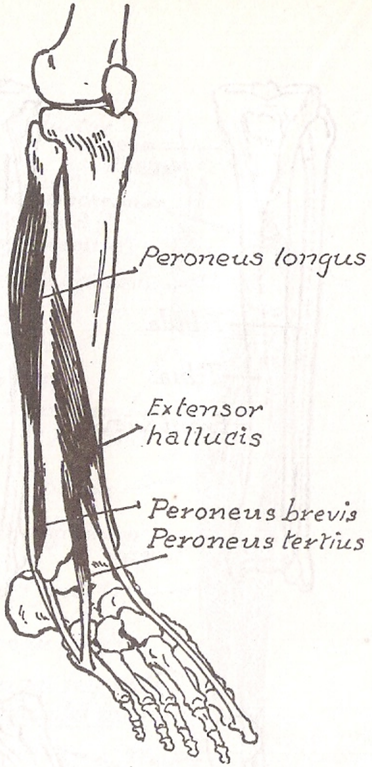
Front of left femur
Fibular collateral ligament
Femur
Cruciate ligaments
Patella ligament
Patella turned down
Fibula
Tibia
Inner head of gastrocnemius (cut)
Adductor magnus (cut)
Semimembranosus (cut)
Popliteus (cut)
Plantaris (cut)
Gastrocnemius
Outer head of Gastrocnemius (cut)
Cruciate ligaments
Fibular colleteral ligament
Biceps (cut)
Adductor magnus
Plantaris
Semi-membranosus
Popliteus
Soleus
Flexor digitorum longus
Flexor of great toe
Peroneus brevis
Patella
Ligament
Semi-membranosus
Fibular collateral ligament of knee
Gracilis
Semi-tendinosus
Sartorius
Popliteus
Patella ligament
Biceps
Tibia
Fibula
Gracilis
Peroneus longus
Extensor longus digitorum
Sartorius
Tibialis anticus
Semi-tendinosus
Tibia
Tibialis posticus
Flexor of great toe
Peroneus longus & brevis
Obturator internus
Obturator externus
Quadratus femoris
Ilio-psoas
Gluteus maximus
Vastus externus
Adductor magnus
Adductor brevis
Obturator internus
Piriformis
Gluteus medius
Vastus internus
Ilio-psoas
Vastus externus
Vastus intermedius

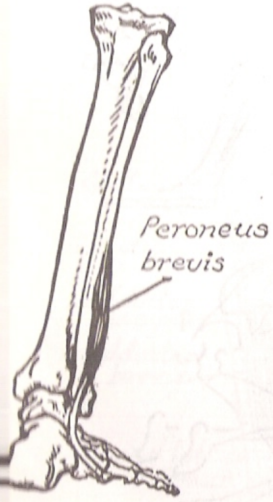

Tibia and Fibula
Right leg
Fibula
Tibia
Front view
Outer view
Inner view
Back view

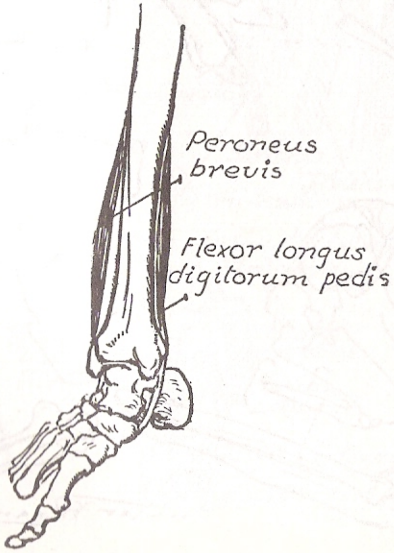

Victor Perard

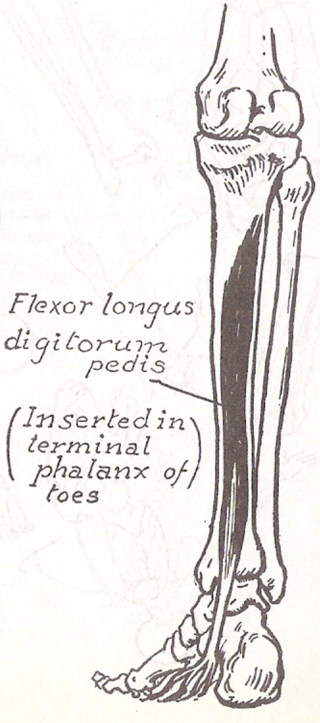

Tibialis anticus


Extensor longus digitorum pedis communis

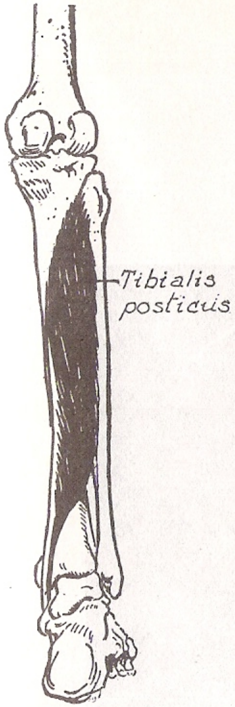

Peroneus longus
Extensor hallucis
Peroneus brevis
Peroneus tertius

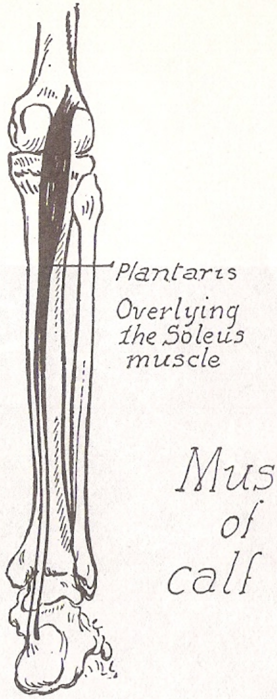

Peroneus breuis

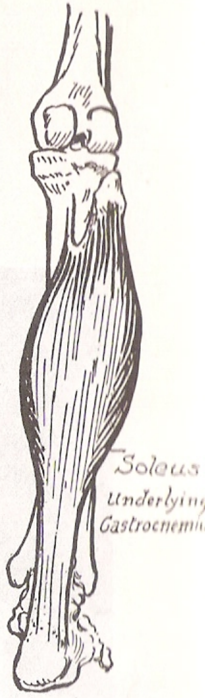

Peroneus breuis
Flexor longus digitorum pedis

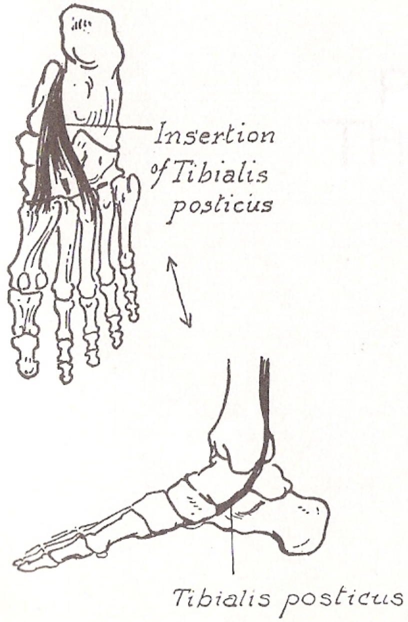

Flexor longus digitorum pedis
(Inserted in terminal phalanx of toes)

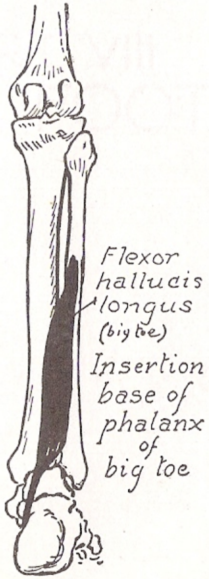
Muscles of the calf of leg

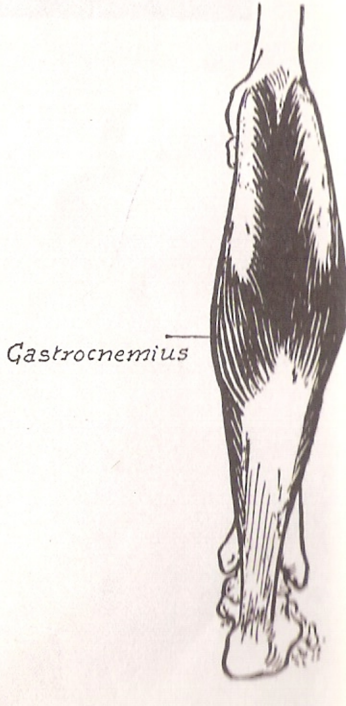

Tibialis posticus


Plantaris
Overlying the Soleus muscle

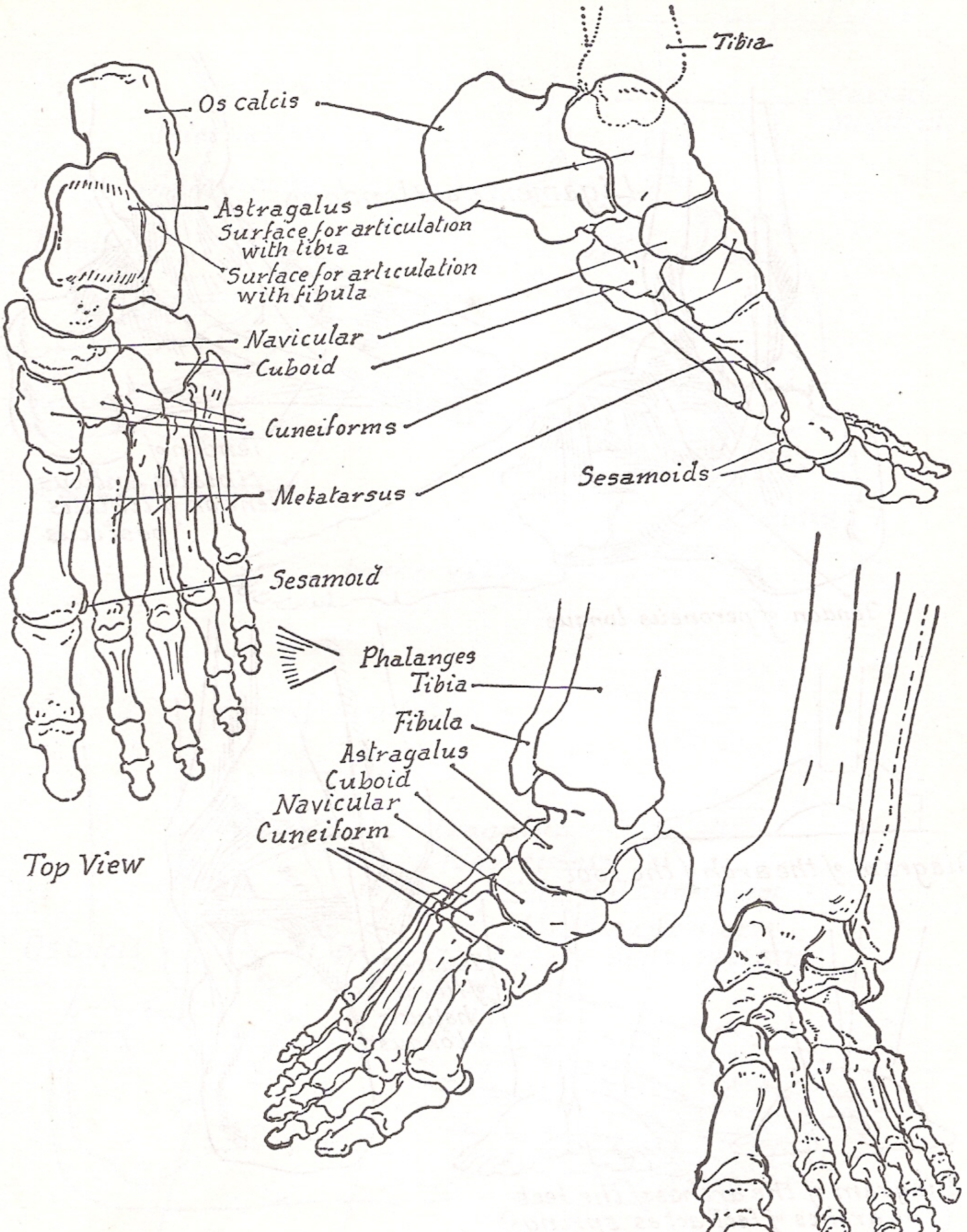

Soleus
Underlying Gastrocnemius


Insertion of Tibialis posticus
Tibialis posticus

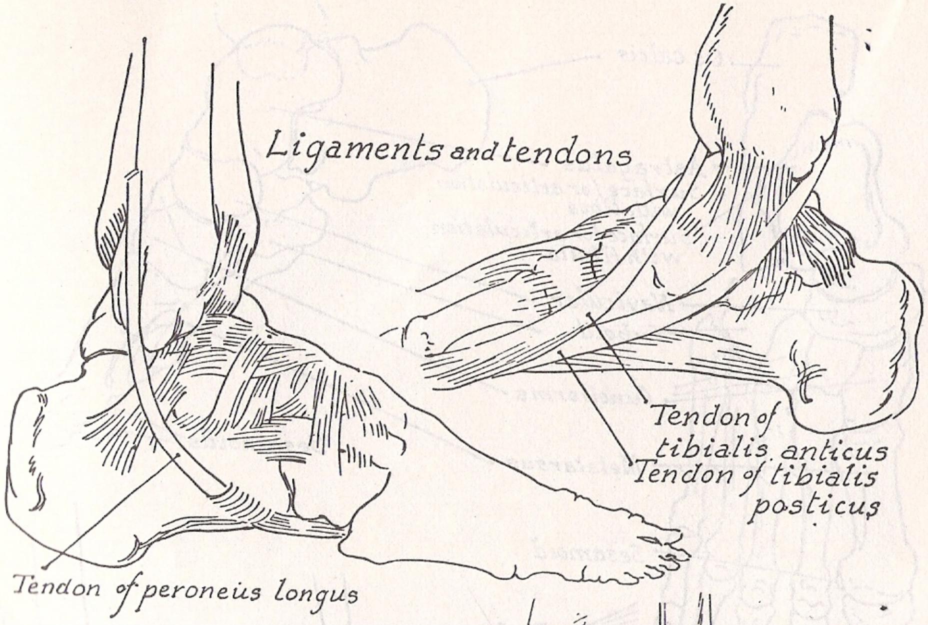

Flexor hallucis longus
(big toe)
Insertion base of phalanx of big toe


Gastrocnemius

PART VIII
THE FOOT


Tibia
Os calcis
Astragalus
Surface for articulation with tibia
Surface for articulation with fibula
Navicular
Cuboid
Cuneiforms
Metatarsus
Sesamoids
Sesamoid
Phalanges
Tibia
Fibula
Astragalus
Cuboid
Navicular
Cuneiform

Top View


Ligaments and tendons
Tendon of tibialis anticus
Tendon of tibialis posticus
Tendon of peroneus longus

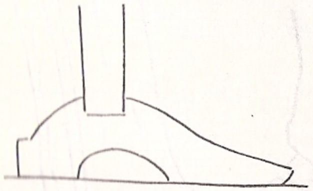
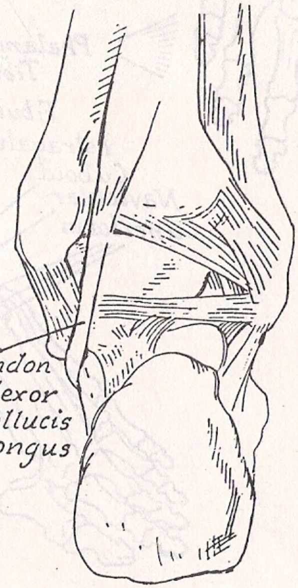


Diagram of the arch of the foot


Tendon of flexor hallucis longus

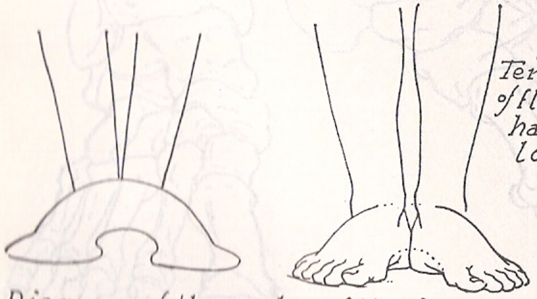
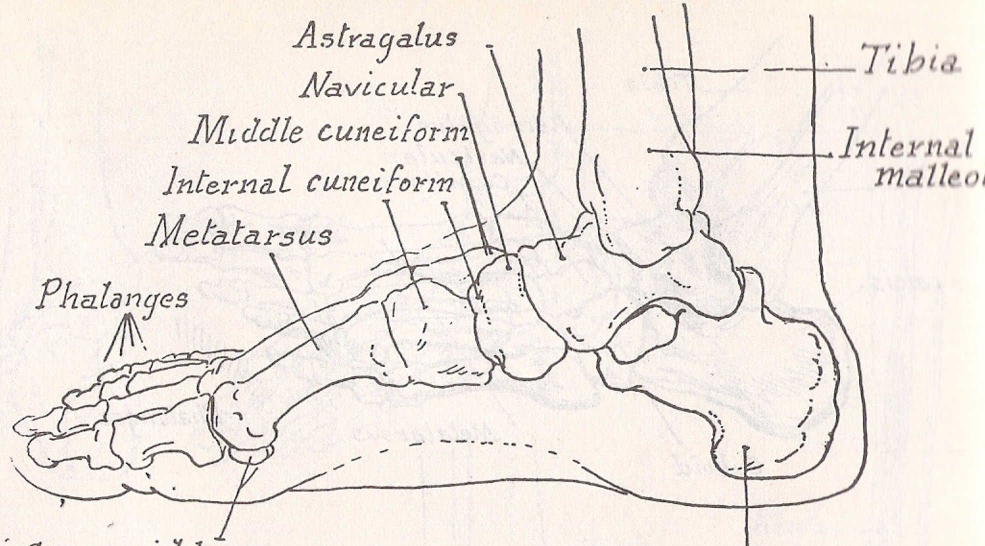
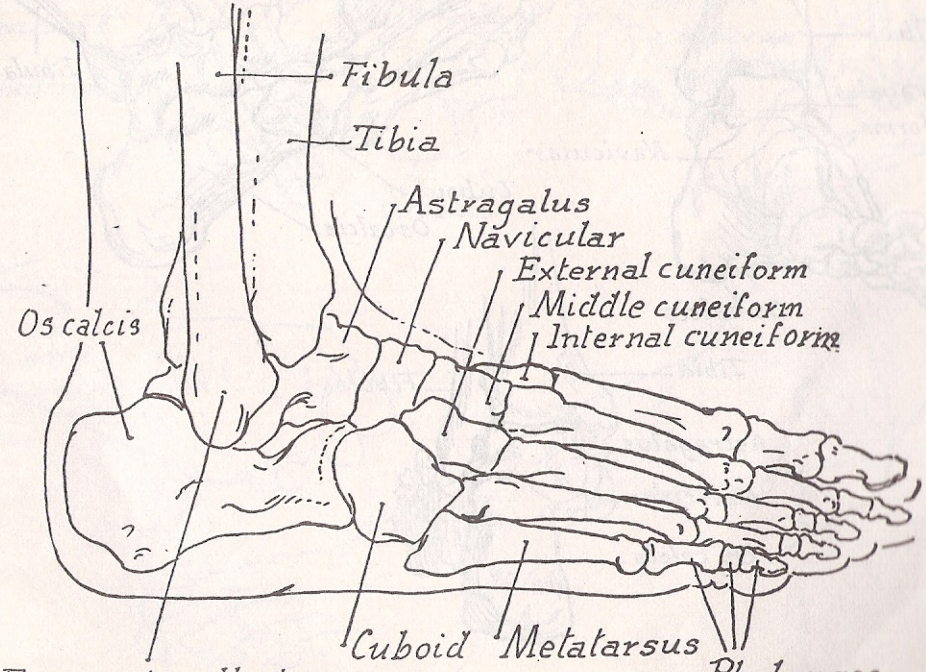


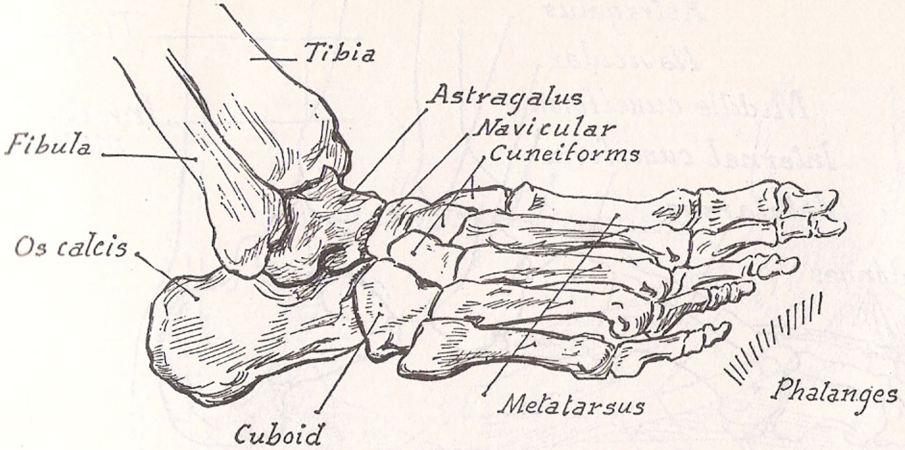
Diagram of the arches of the feet
(The arches of feet act as springs)

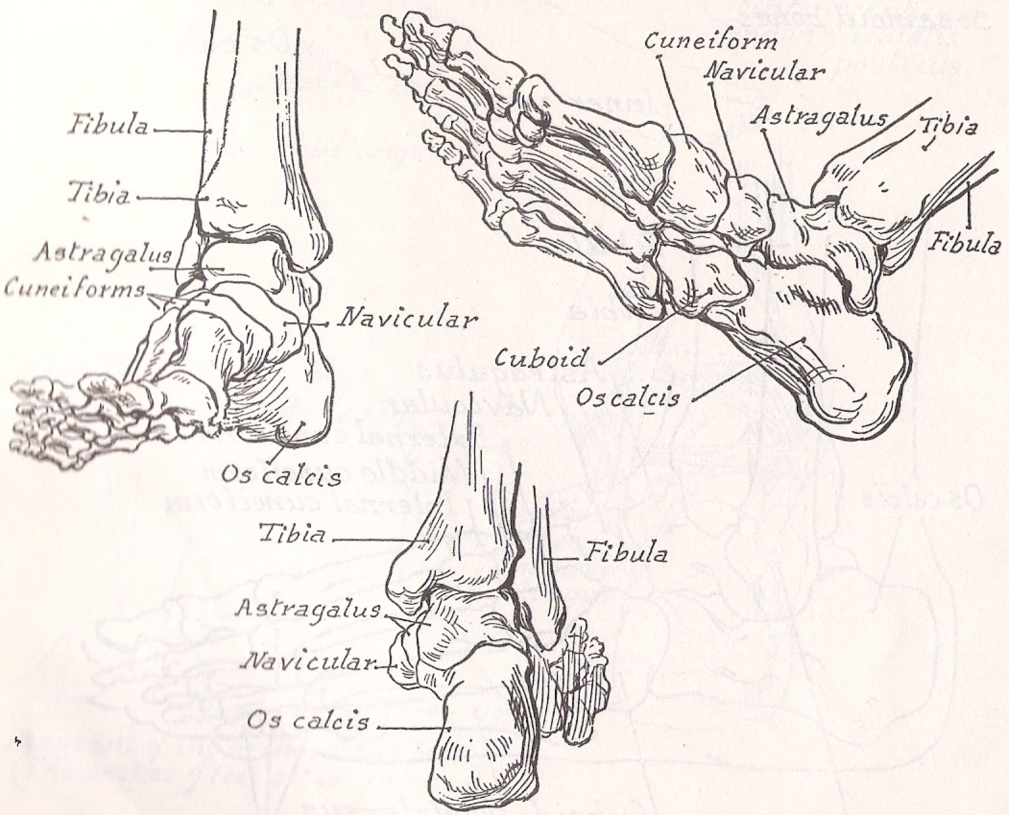

Astragalus
Navicular
Middle cuneiform
Internal cuneiform
Metatarsus
Phalanges
Tibia
Internal malleo
Sesamoid bones
Os calcis

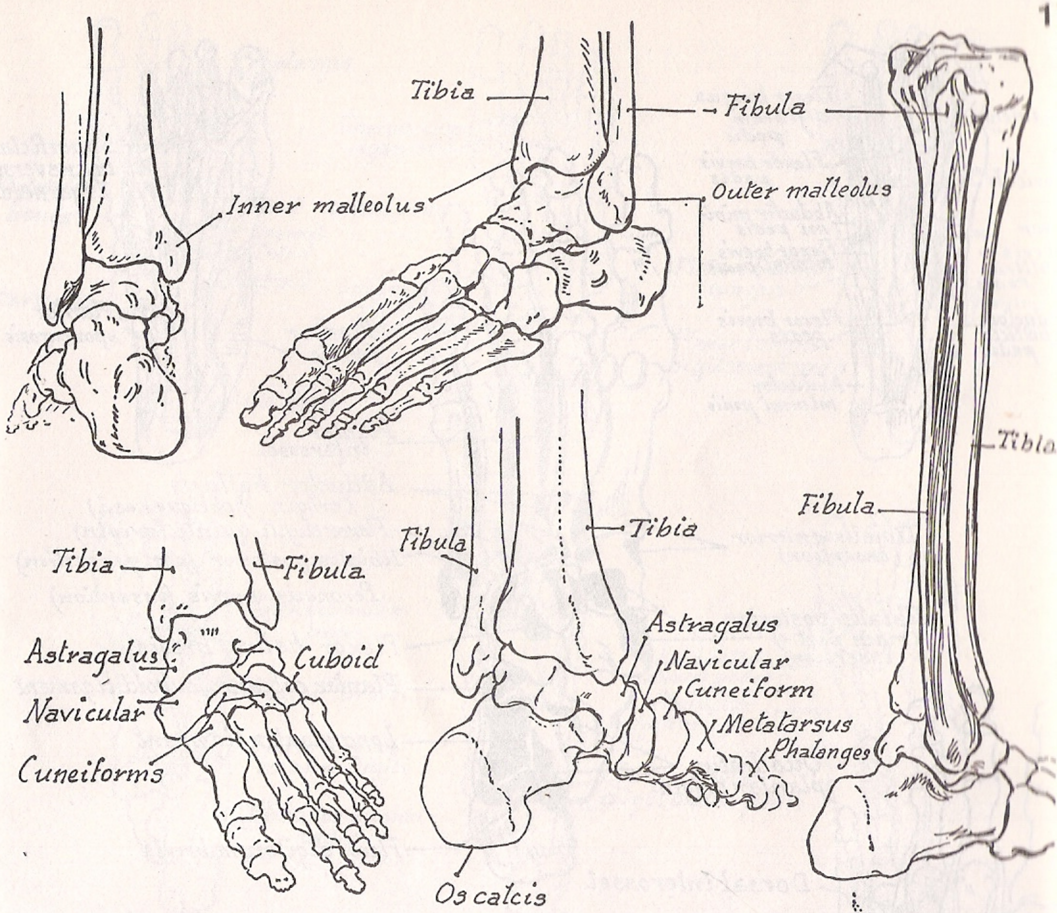
Inner view

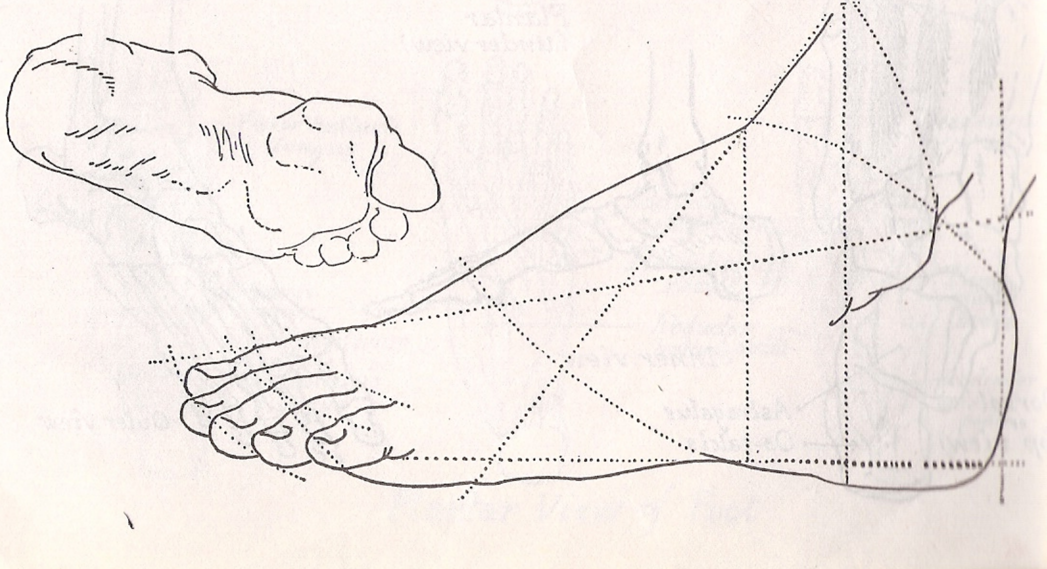

Fibula
Tibia
Astragalus
Navicular
External cuneiform
Middle cuneiform
Internal cuneiform
Os calcis
Cuboid
Metatarsus
Phalanges
External malleolus

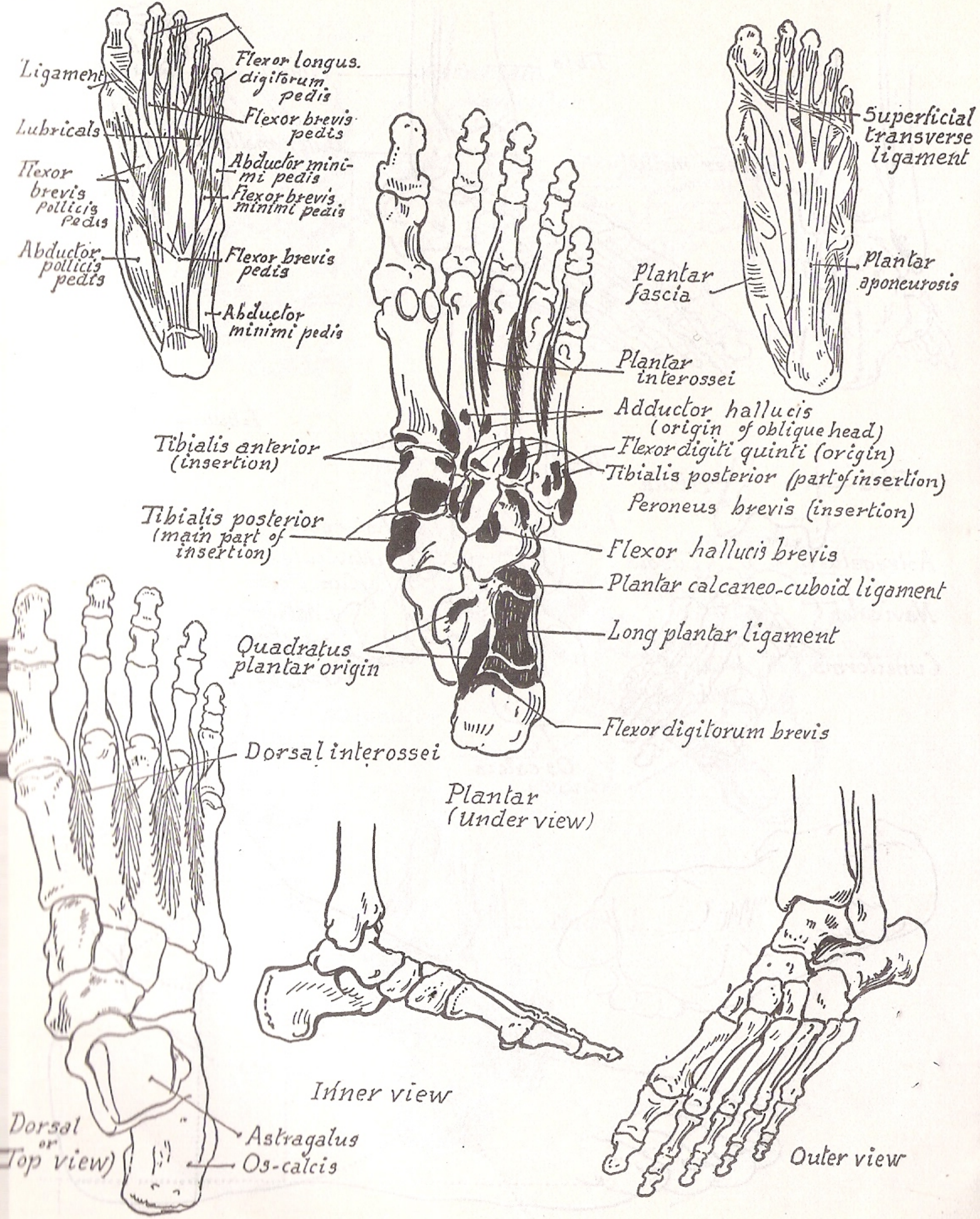
Outer view

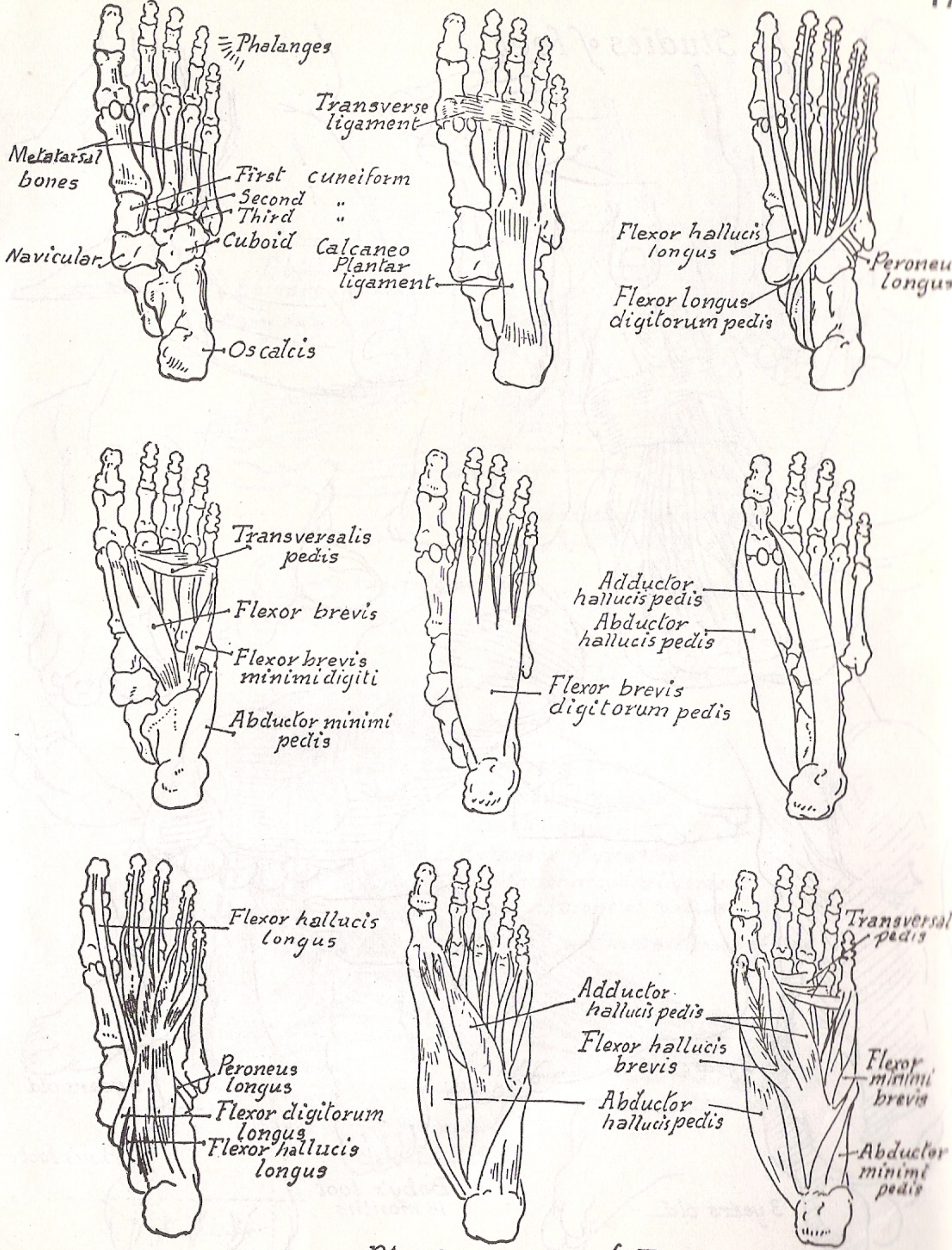

Tibia
Astragalus
Navicular
Cuneiforms
Fibula
Os calcis
Metatarsus
Phalanges
Cuboid


Cuneiform
Navicular
Astragalus
Tibia
Fibula
Fibula
Tibia
Astragalus
Cuneiforms
Navicular
Cuboid
Os calcis
Os calcis
Tibia
Fibula
Astragalus
Navicular
Os calcis


Tibia
Fibula
Inner malleolus
Outer malleolus
Tibia
Fibula
Tibia
Fibula
Fibula
Tibia
Astragalus
Cuboid
Navicular
Cuneiforms
Astragalus
Navicular
Cuneiform
Metatarsus
Phalanges
Os calcis

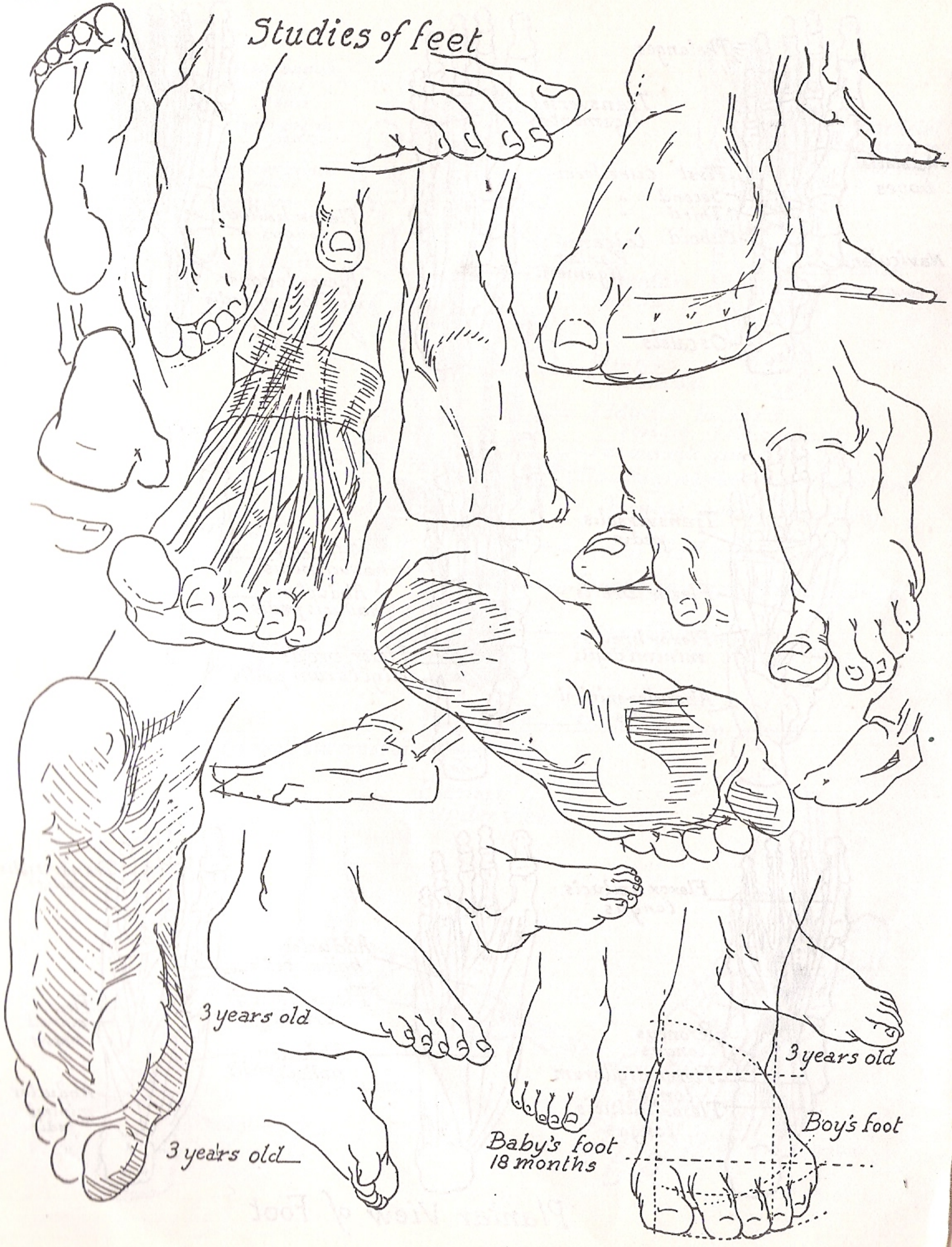


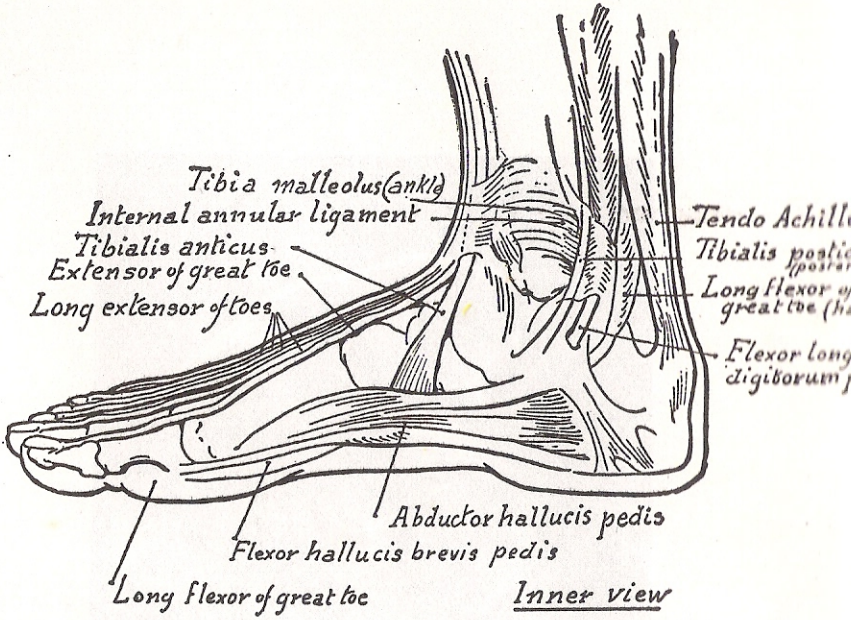

Ligament
Flexor longus digitorum pedis
Lubricals
Flexor brevis pedis
Flexor brevis pollicis pedis
Abductor minimi pedis
Flexor brevis minimi pedis
Abductor pollicis pedis
Flexor brevis pedis
Abductor minimi pedis
Superficial transverse ligament
Plantar fascia
Plantar aponeurosis
Plantar interossei
Adductor hallucis (origin of oblique head)
Tibialis anterior (insertion)
Flexor digiti quinti (origin)
Tibialis posterior (part of insertion)
Peroneus brevis (insertion)
Tibialis posterior (main part of insertion)
Flexor hallucis brevis
Plantar calcaneo-cuboid ligament
Long plantar ligament
Quadratus plantar origin
Flexor digitorum brevis
Dorsal interossei
Plantar (Under view)
Inner view
Outer view
Dorsal or Top view
Astragalus
Os-calcis


Phalanges
Transverse ligament
Metatarsal bones
First cuneiform
Second
Third
Cuboid
Navicular
Calcaneo Plantar ligament
Os calcis
Flexor hallucis longus
Peroneu
longu
Flexor longus digitorum pedis
Transversalis pedis
Flexor brevis
Flexor brevis minimi digiti
Abductor minimi pedis
Adductor hallucis pedis
Abductor hallucis pedis
Flexor brevis digitorum pedis
Flexor hallucis longus
Peroneus longus
Flexor digitorum longus
Flexor hallucis longus
Adductor hallucis pedis
Flexor hallucis brevis
Abductor hallucis pedis
Transversal pedis
Flexor minimi brevis
Abductor minimi pedis

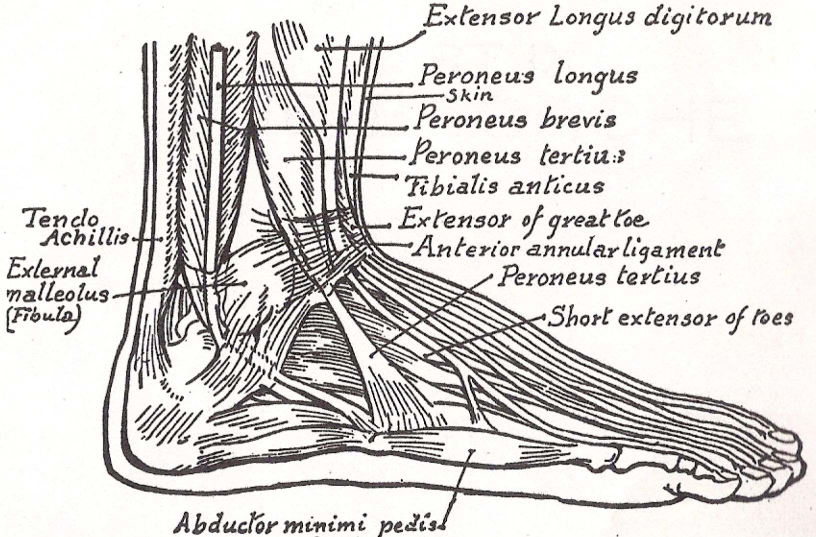
Plantar View of Foot

Studies of feet


3 years old
3 years old
3 years old
Baby's foot
18 months
Boy's foot

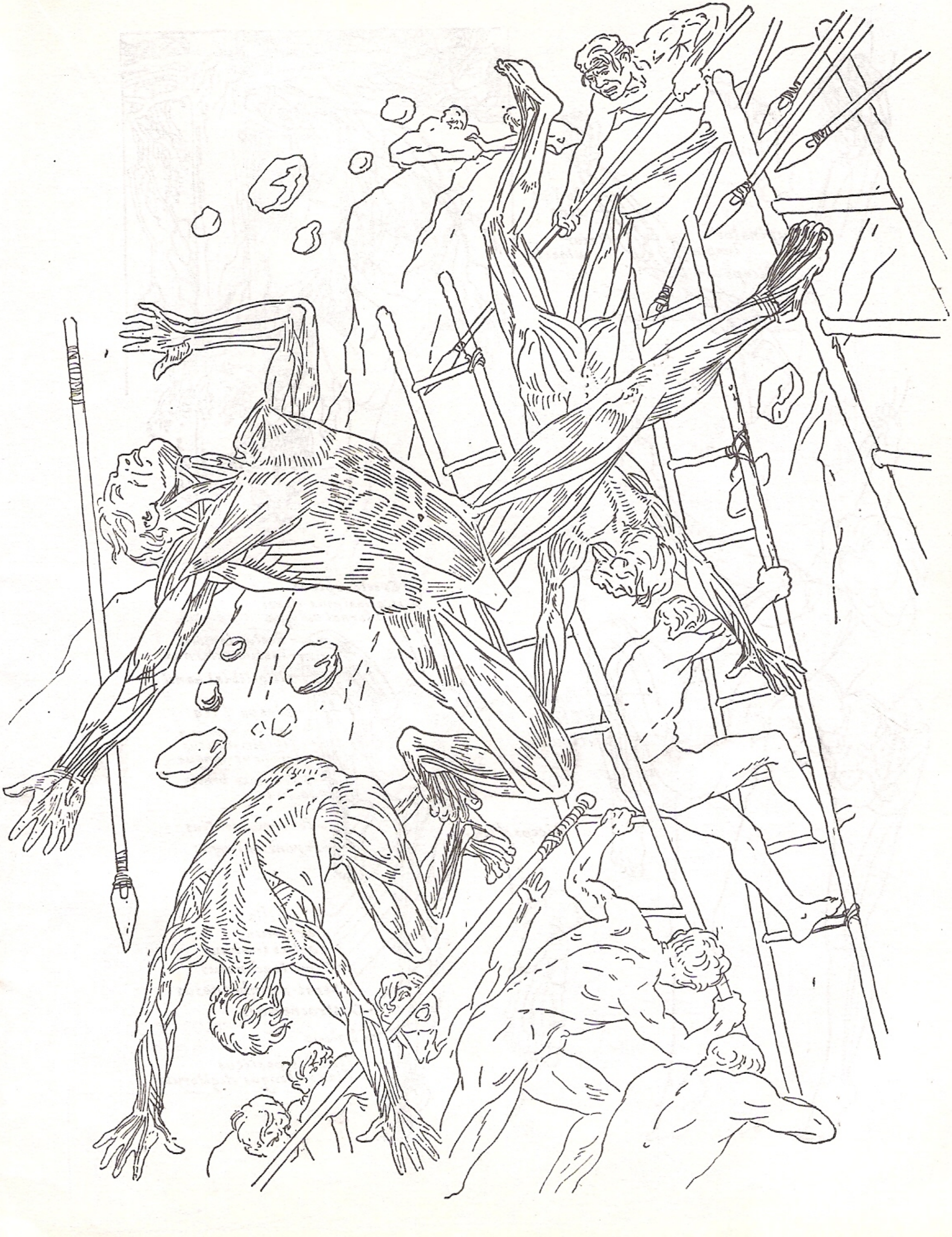

Tibia malleolus (ankle)
Internal annular ligament
Tibialis anticus
Extensor of great toe
Long extensor of toes
Tendo Achille
Tibialis postic
(posteri
Long flexor of
great toe (h
Flexor long
digitorum p
Abductor hallucis pedis
Flexor hallucis brevis pedis
Long flexor of great toe

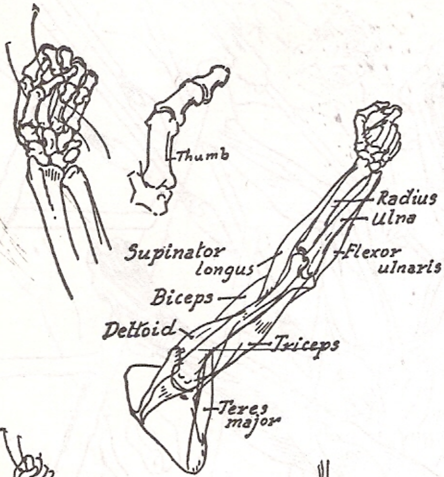
Inner view

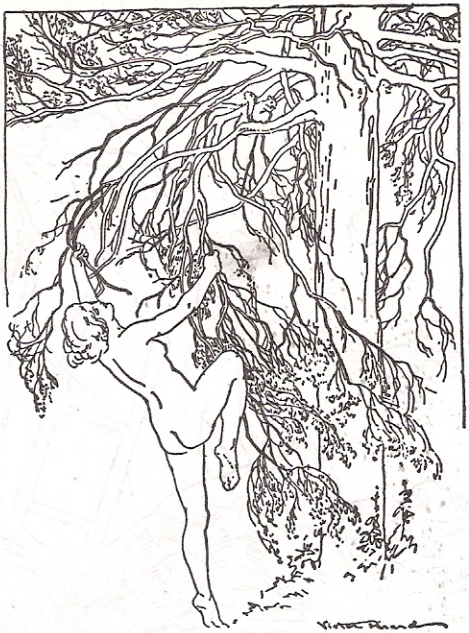

Extensor Longus digitorum
Peroneus longus
Skin
Peroneus brevis
Peroneus tertius
Tibialis anticus
Extensor of great toe
Anterior annular ligament
Peroneus tertius
Short extensor of toes
Tendo Achillis
External malleolus (Fibula)
Abductor minimi pedis

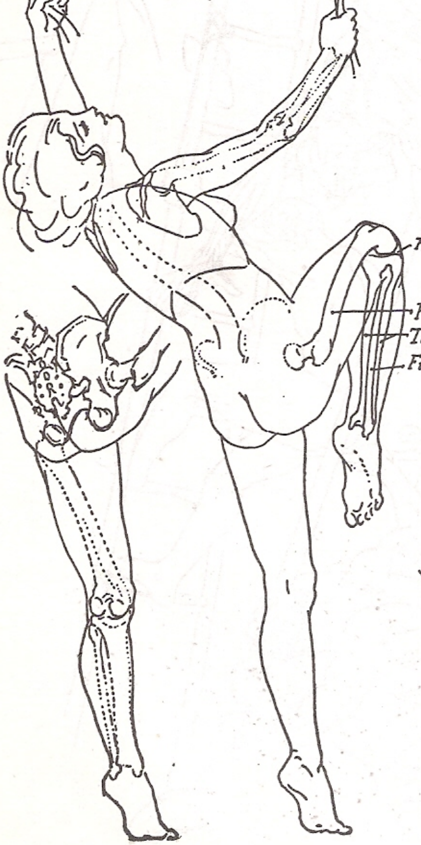
Outer view

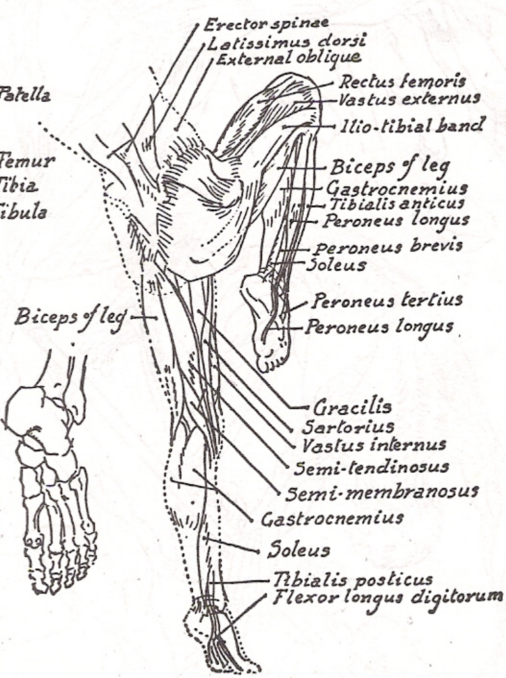
PART IX
THE ECORCHE

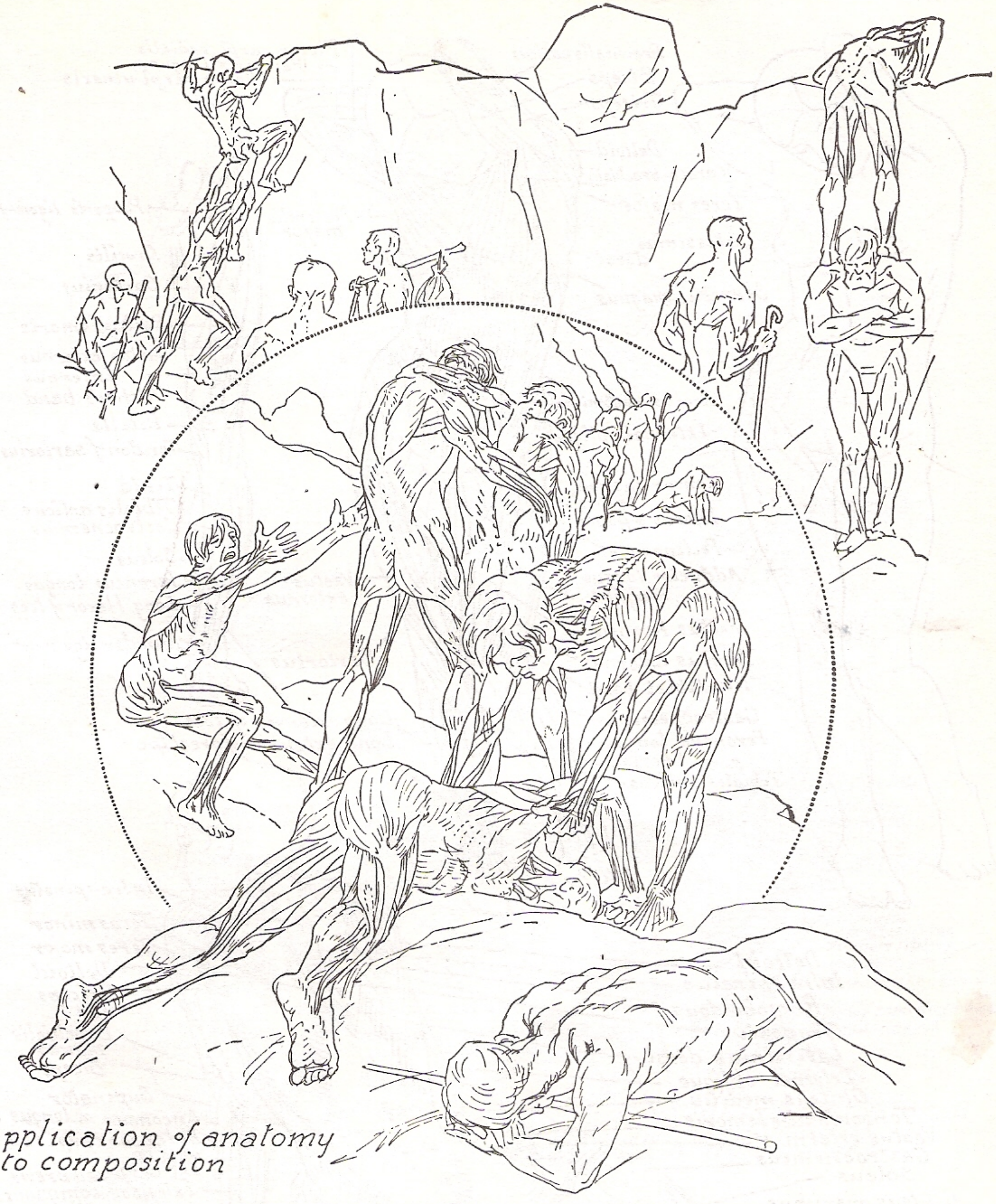



Thumb
Radius
Ulna
Supinator longus
Flexor ulnaris
Biceps
Deltoid
Triceps
Teres major

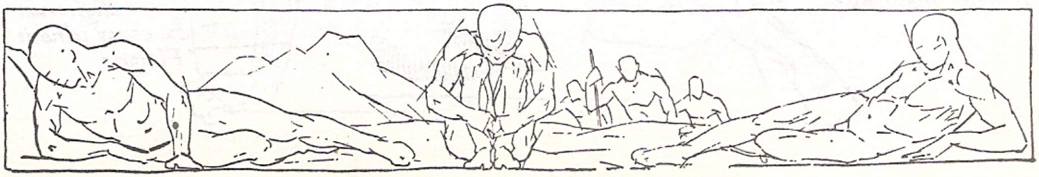


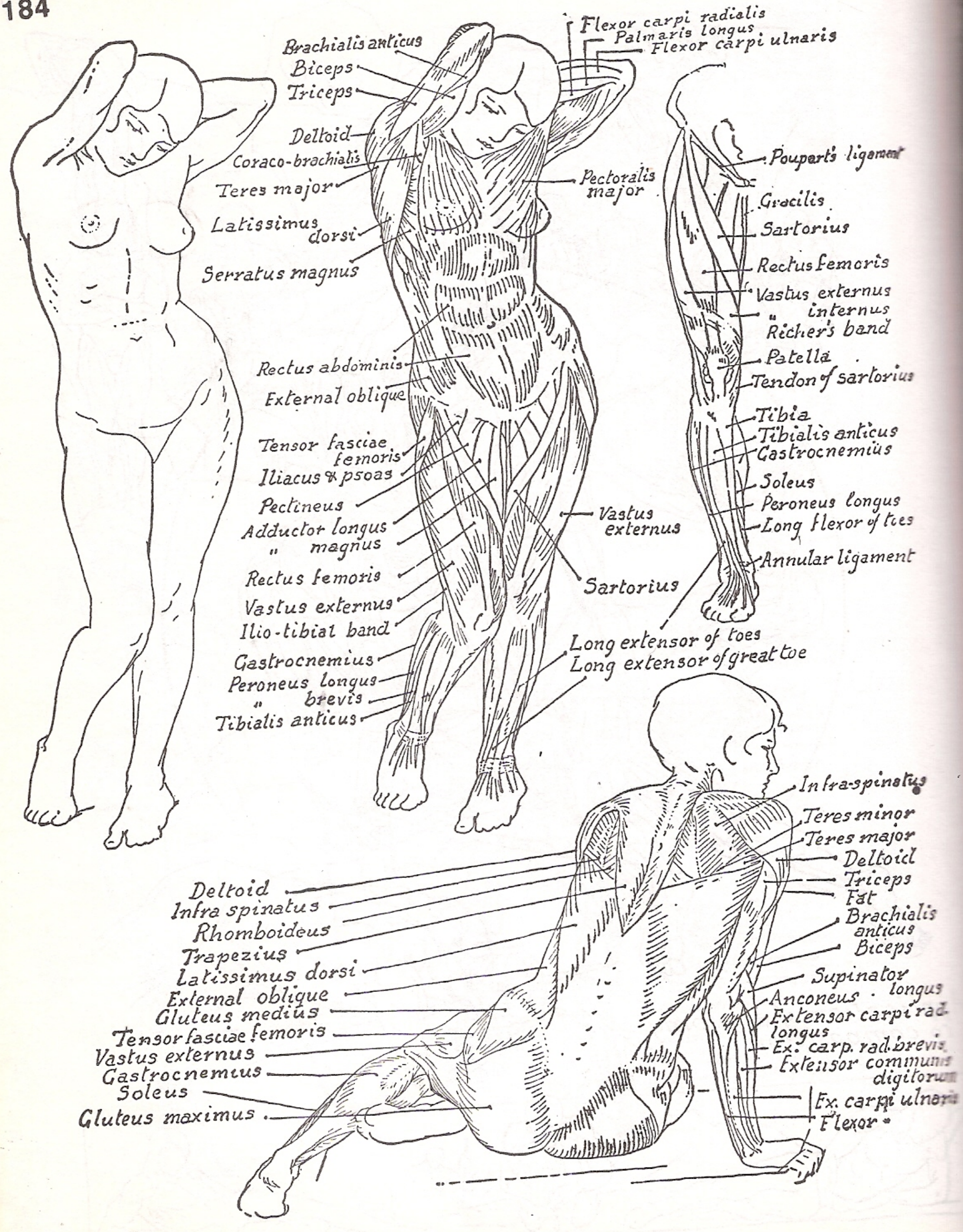

Patella
Femur
Tibia
Fibula

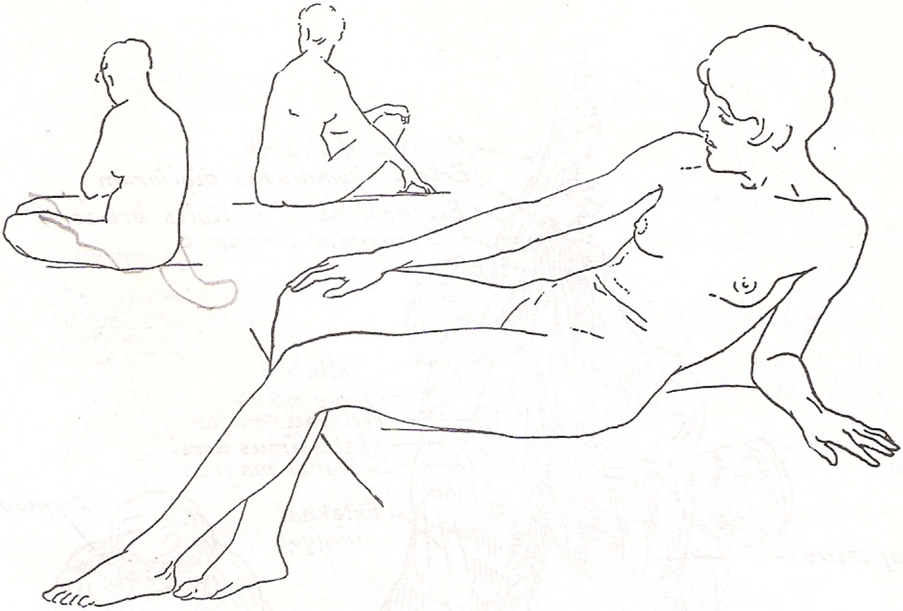

Erector spinae
Latissimus dorsi
External oblique
Rectus femoris
Vastus externus
Ilio-tibial band
Biceps of leg
Gastrocnemius
Tibialis anticus
Peroneus longus
Peroneus brevis
Soleus
Peroneus tertius
Peroneus longus
Biceps of leg
Gracilis
Sartorius
Vastus internus
Semi-tendinosus
Semi-membranosus
Gastrocnemius
Soleus
Tibialis posticus
Flexor longus digitorum

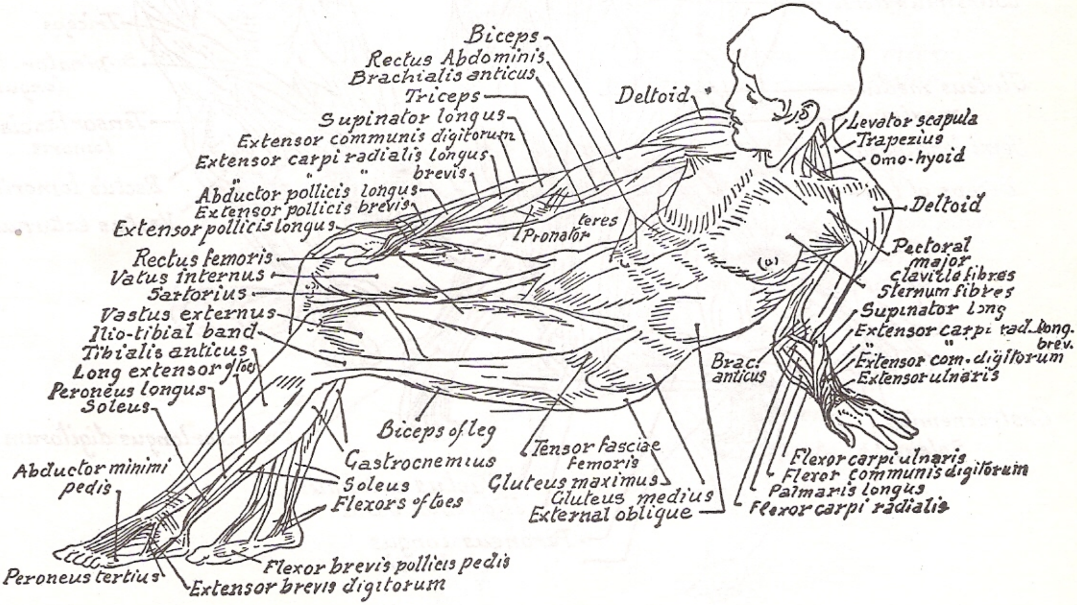


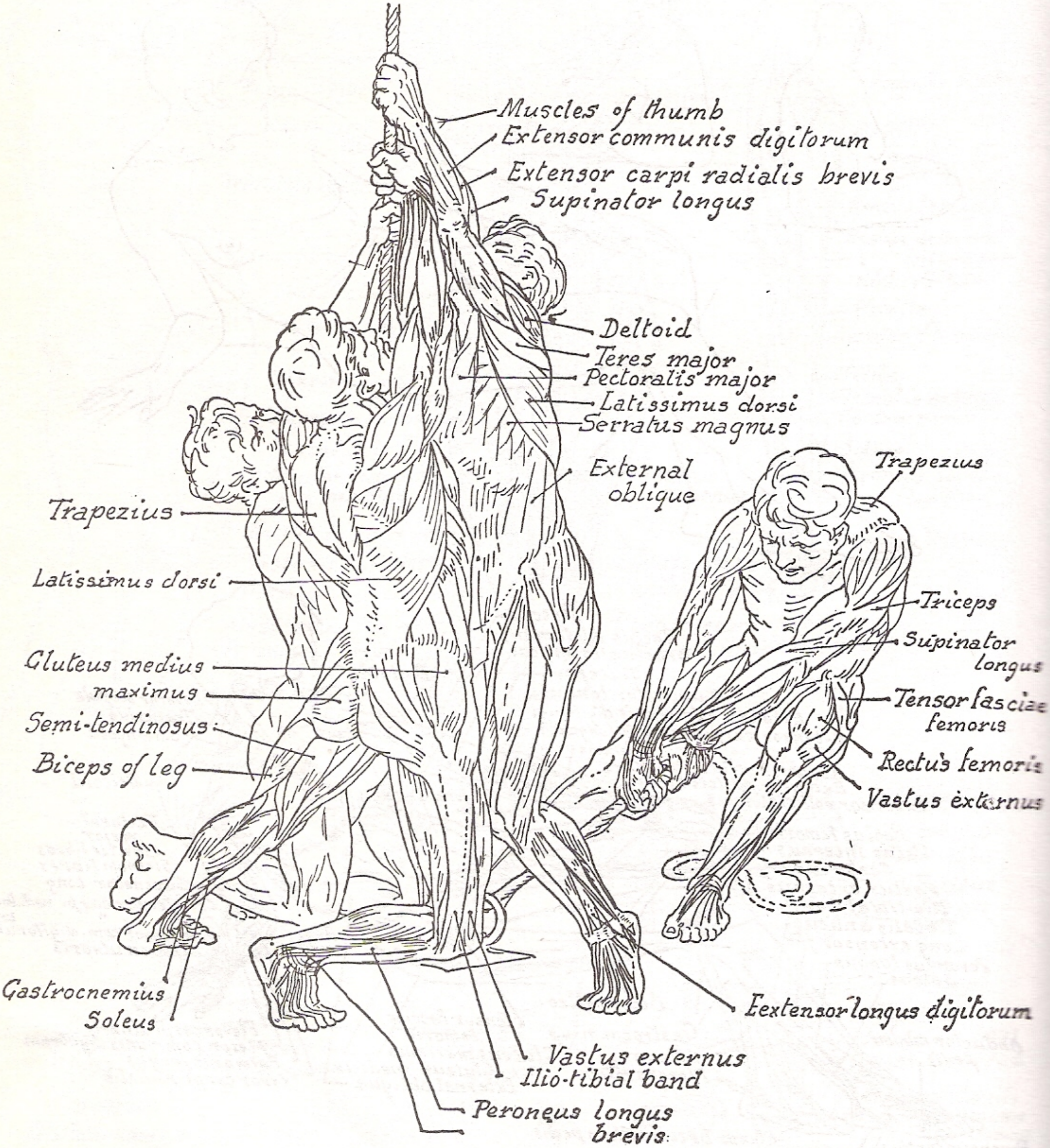
Application of anatomy to composition

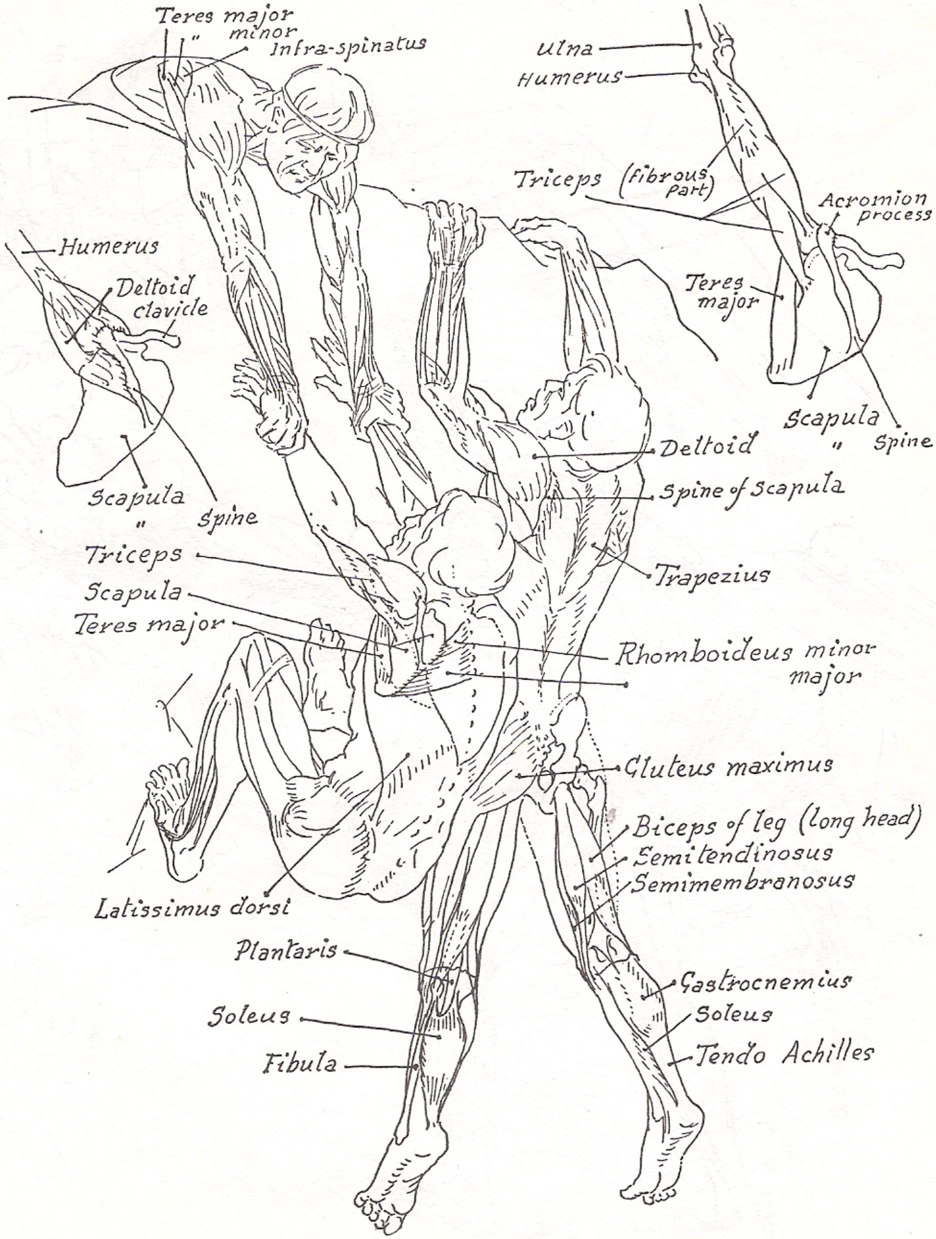


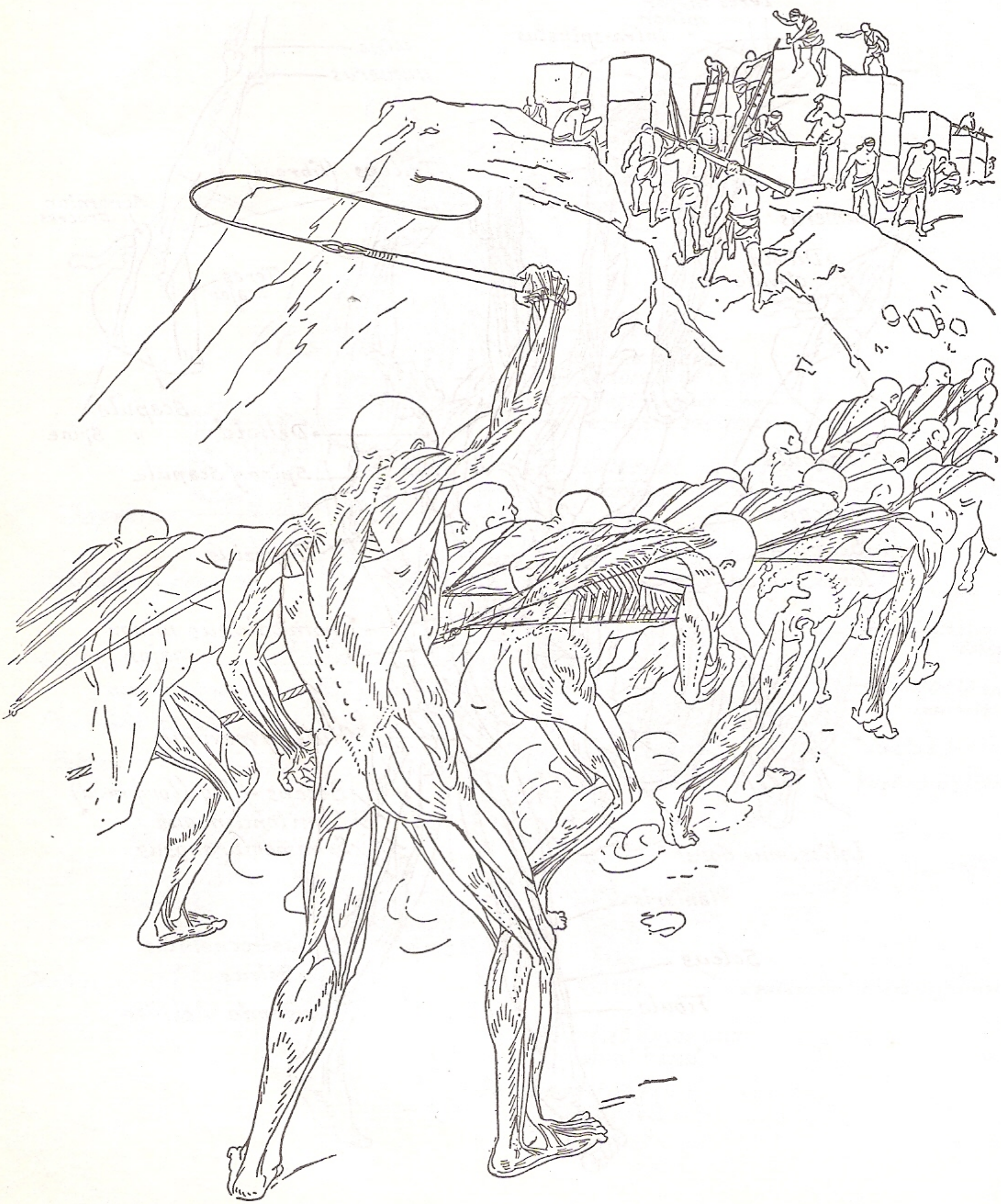

Brachialis anticus
Biceps
Triceps
Deltoid
Coraco-brachialis
Teres major
Latissimus dorsi
Serratus magnus
Flexor carpi radialis
Palmaris longus
Flexor carpi ulnaris
Pectoralis major
Rectus abdominis
External oblique
Tensor fasciae femoris
Iliacus & psoas
Pectineus
Adductor longus
" magnus
Rectus femoris
Vastus externus
Ilio-tibial band
Gastrocnemius
Peroneus longus
" brevis
Tibialis anticus
Vastus externus
Sartorius
Long extensor of toes
Long extensor of great toe
Poupart's ligament
Gracilis
Sartorius
Rectus femoris
Vastus externus
" internus
Richer's band
Patella
Tendon of sartorius
Tibia
Tibialis anticus
Gastrocnemius
Soleus
Peroneus longus
Long flexor of toes
Annular ligament
Infra-spinatus
Teres minor
Teres major
Deltoid
Triceps
Fat
Brachialis anticus
Biceps
Supinator longus
Anconeus
Extensor carpi rad. longus
Ex. carp. rad. brevis
Extensor communis digitorum
Ex. carpi ulnaris
Flexor "
Deltoid
Infra spinatus
Rhomboideus
Trapezius
Latissimus dorsi
External oblique
Gluteus medius
Tensor fasciae femoris
Vastus externus
Gastrocnemius
Soleus
Gluteus maximus

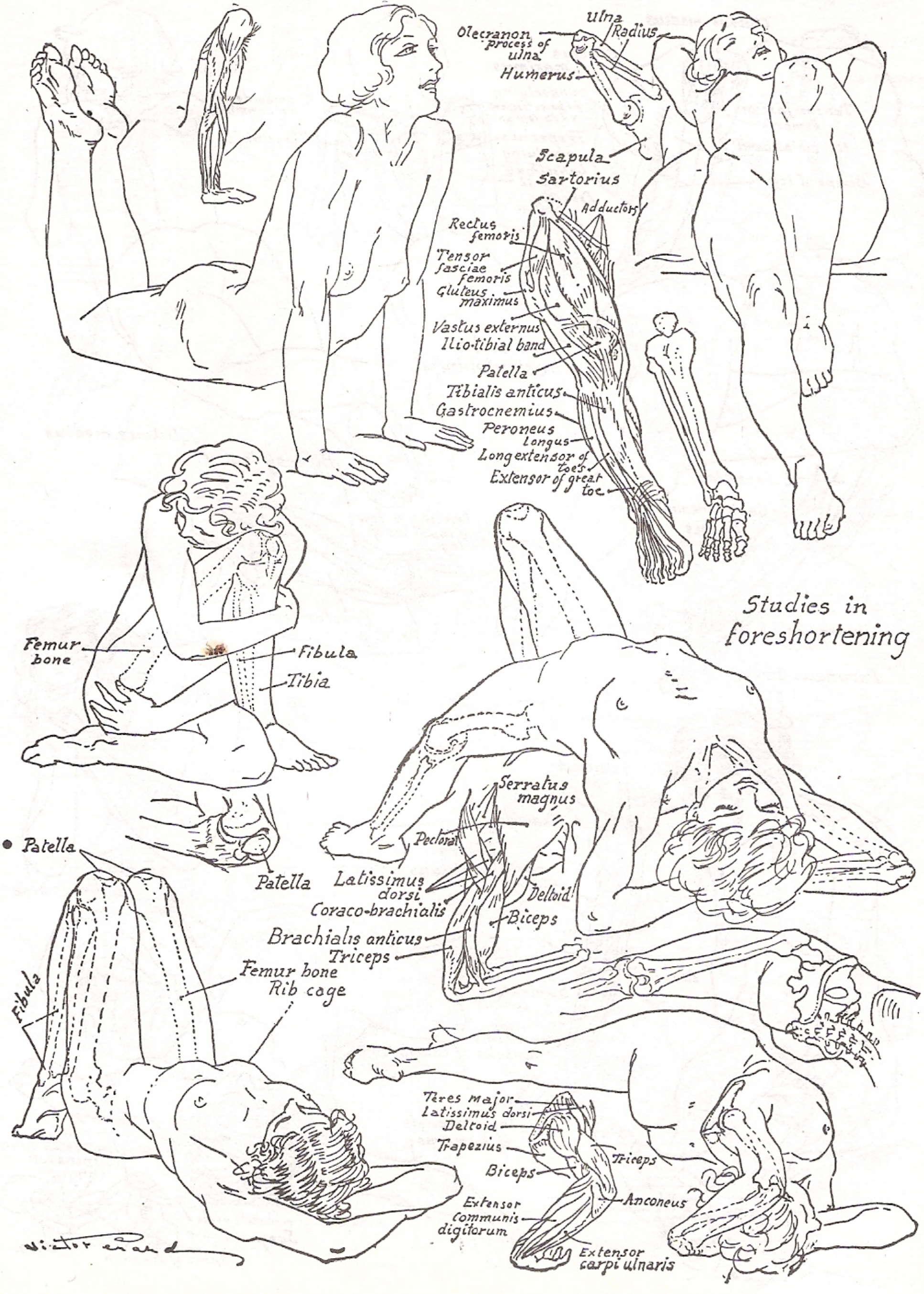



Biceps
Rectus Abdominis
Brachialis anticus
Triceps
Supinator longus
Extensor communis digitorum
Extensor carpi radialis longus
" " brevis
" Abductor pollicis longus
Extensor pollicis brevis
Extensor pollicis longus
teres
Pronator
Rectus femoris
Vatus internus
Sartorius
Vastus externus
Ilio-tibial band
Tibialis anticus
Long extensor of toes
Peroneus longus
Soleus
Biceps of leg
Abductor minimi pedis
Gastrocnemius
Soleus
Flexors of toes
Peroneus tertius
Extensor brevis digitorum
Flexor brevis pollicis pedis
Tensor fasciae femoris
Gluteus maximus
Gluteus medius
External oblique
Deltoid
Levator scapula
Trapezius
Omo-hyoid
Deltoid
Pectoral major
clavicle fibres
Sternum fibres
Supinator long
Extensor carpi rad. long.
" " brev.
Extensor com. digitorum
Extensor ulnaris
Brac. anticus
Flexor carpi ulnaris
Flexer communis digitorum
Palmaris longus
Flexor carpi radialis

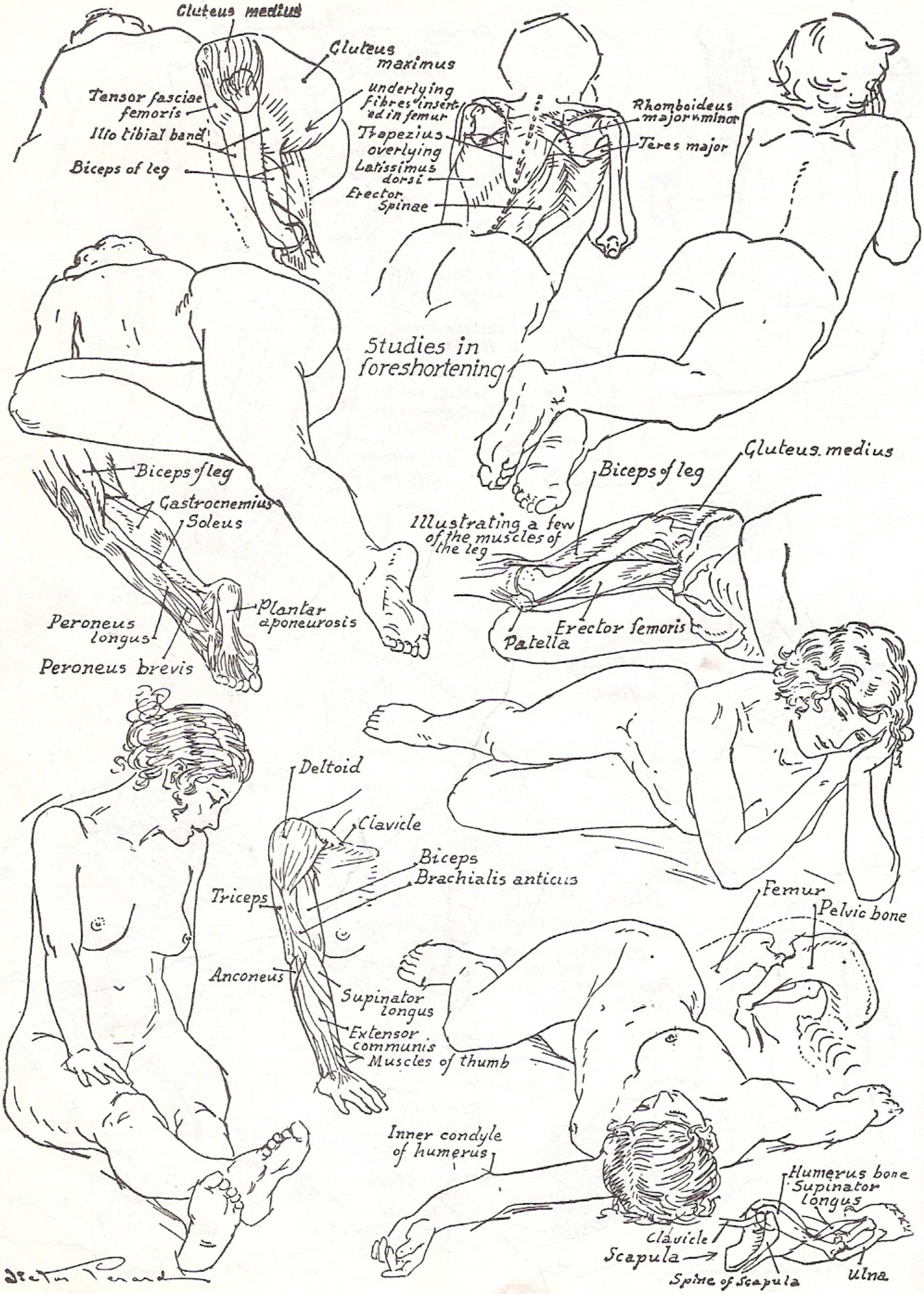

Muscles of thumb
Extensor communis digitorum
Extensor carpi radialis brevis
Supinator longus
Deltoid
Teres major
Pectoralis major
Latissimus dorsi
Serratus magnus
External oblique
Trapezius
Trapezius
Latissimus dorsi
Triceps
Supinator longus
Gluteus medius
maximus
Semi-tendinosus
Biceps of leg
Tensor fasciae femoris
Rectus femoris
Vastus externus
Gastrocnemius
Soleus
Eextensor longus digitorum
Vastus externus
Iliò-tibial band
Peroneus longus
brevis

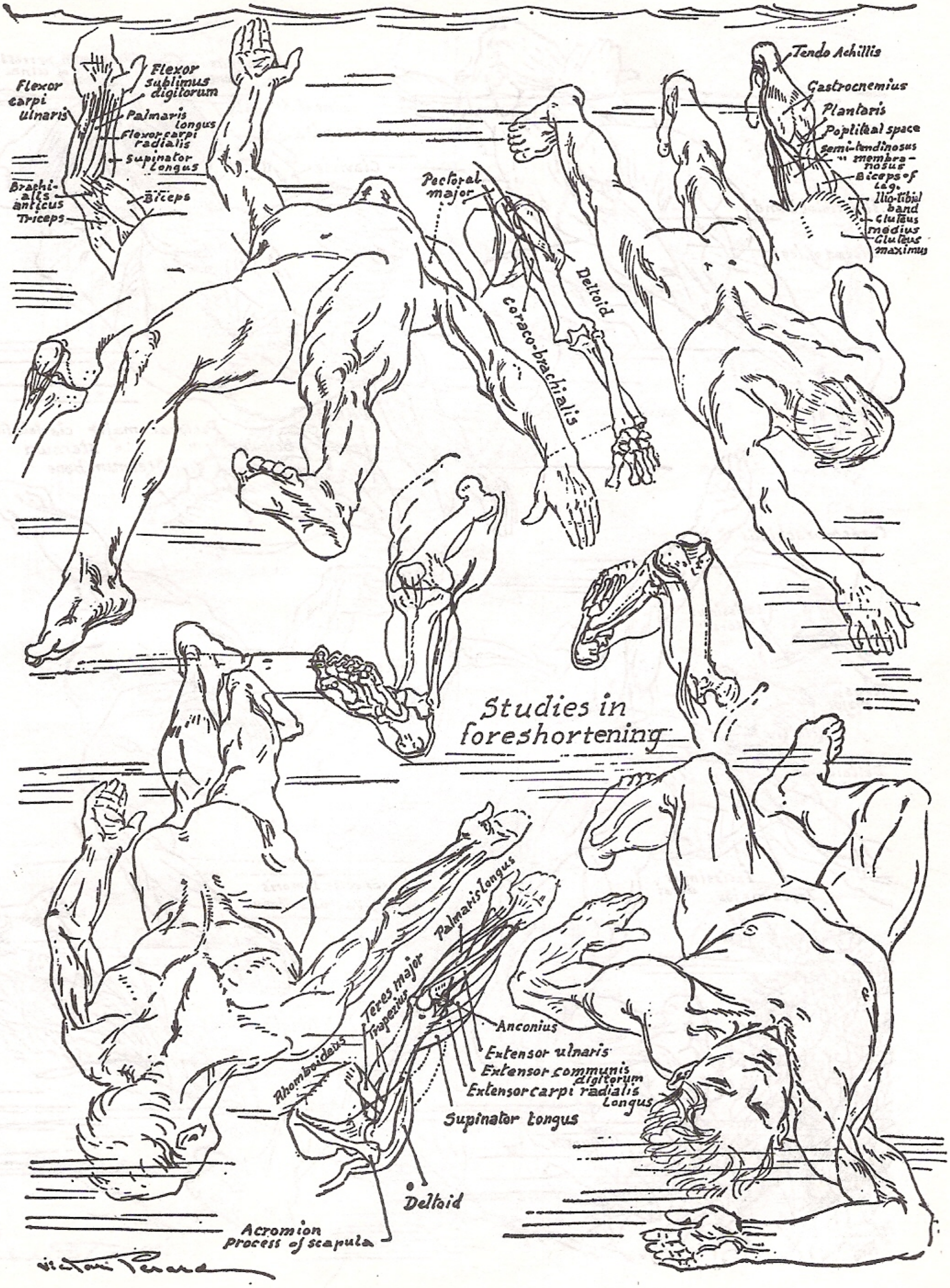

Teres major
" minor
Infra-spinatus
Ulna
Humerus
Triceps (fibrous part)
Acromion process
Teres major
Scapula
" Spine
Humerus
Deltoid
clavicle
Scapula
" Spine
Deltoid
Spine of Scapula
Triceps
Trapezius
Scapula
Teres major
Rhomboideus minor
major
Gluteus maximus
Biceps of leg (long head)
Semitendinosus
Semimembranosus
Latissimus dorsi
Plantaris
Gastrocnemius
Soleus
Soleus
Tendo Achilles
Fibula

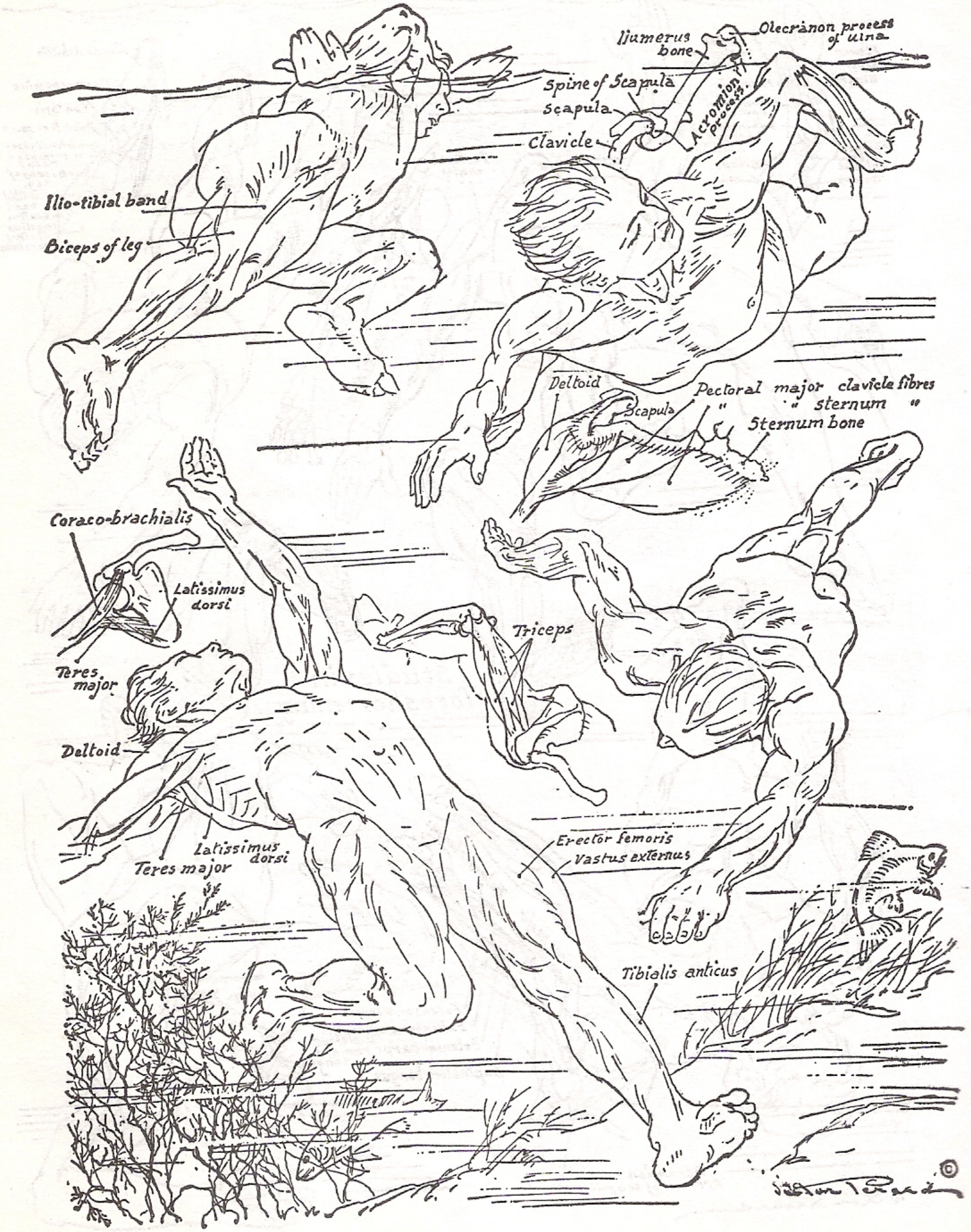


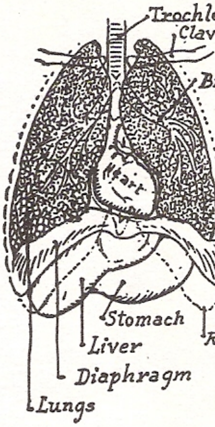

Ulna
Olecranon process of ulna
Radius
Humerus
Scapula
Sartorius
Adductors
Rectus femoris
Tensor fasciae femoris
Gluteus maximus
Vastus externus
Ilio-tibial band
Patella
Tibialis anticus
Gastrocnemius
Peroneus longus
Long extensor of toes
Extensor of great toe
Femur bone
Fibula
Tibia
Patella
Patella
Serratus magnus
Pectoral
Latissimus dorsi
Coraco-brachialis
Deltoid
Biceps
Brachialis anticus
Triceps
Fibula
Femur bone
Rib cage
Teres major
Latissimus dorsi
Deltoid
Trapezius
Triceps
Biceps
Anconeus
Extensor communis digitorum
Extensor carpi ulnaris

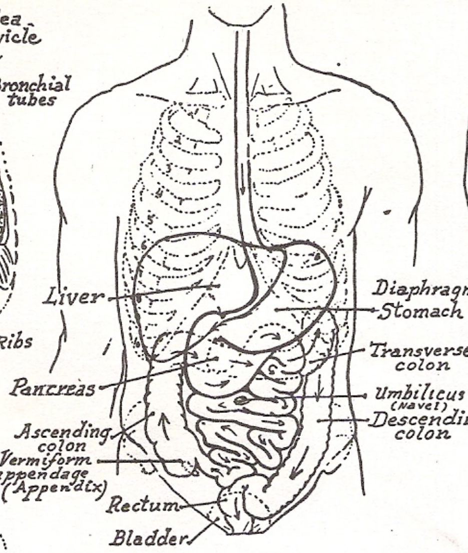
Studies in foreshortening


Gluteus medius
Gluteus maximus
Tensor fasciae femoris
Ilio tibial band
Biceps of leg
underlying fibres inserted in femur
Trapezius overlying
Latissimus dorsi
Erector Spinae
Rhomboideus major & minor
Teres major
Studies in foreshortening
Biceps of leg
Gastrocnemius
Soleus
Plantar aponeurosis
Peroneus longus
Peroneus brevis
Gluteus medius
Biceps of leg
Illustrating a few of the muscles of the leg
Erector femoris
Patella
Deltoid
Clavicle
Biceps
Brachialis anticus
Triceps
Anconeus
Supinator longus
Extensor communis
Muscles of thumb
Femur
Pelvic bone
Inner condyle of humerus
Humerus bone
Supinator longus
Clavicle
Scapula
Spine of Scapula
Ulna
Victor Perard

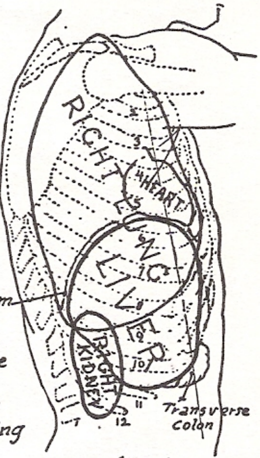

Studies in foreshortening
Flexor carpi ulnaris
Flexor sublimus digitorum
Palmaris longus
Flexor carpi radialis
Supinator longus
Brachialis anticus
Biceps
Triceps
Pectoral major
Deltoid
Coraco-brachialis
Tendo Achillis
Gastrocnemius
Plantaris
Popliteal space
semi-tendinosus
" membranosus
Biceps of leg.
Ilio-tibial band
Gluteus medius
Gluteus maximus
Palmaris longus
Teres major
Trapezius
Rhomboideus
Anconius
Extensor ulnaris
Extensor communis digitorum
Extensor carpi radialis longus
Supinator longus
Deltoid
Acromion process of scapula
Victor Perard


Humerus bone
Olecranon process of ulna
Spine of Scapula
Scapula
Acromion process
Clavicle
Ilio-tibial band
Biceps of leg
Deltoid
Pectoral major clavicle fibres
" sternum "
Scapula
Sternum bone
Coraco-brachialis
Latissimus dorsi
Teres major
Triceps
Deltoid
Latissimus dorsi
Teres major
Erector femoris
Vastus externus
Tibialis anticus
©

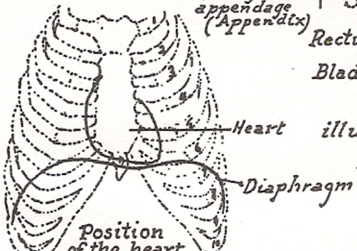

Trochlea
Clavicle
Bronchial tubes
Heart
Stomach
Liver
Ribs
Diaphragm
Lungs


Liver
Stomach
Pancreas
Transverse colon
Umbilicus (Navel)
Descending colon
Ascending colon
Vermiform appendage (Appendix)
Rectum
Bladder
4
5
6

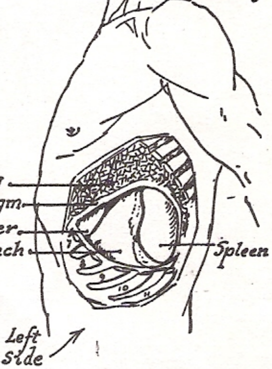
Front view illustrating position of digestive tract

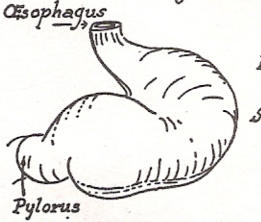

Diaphragm
RIGHT LUNG
HEART
LIVER
RIGHT KIDNEY
Transverse colon
3
4
5
10
11
12

Right side showing relative position of lung, liver & Kidney

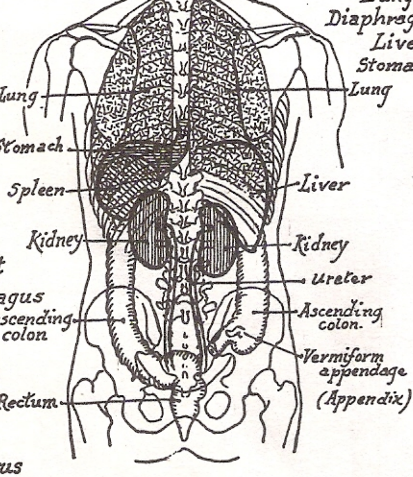

Heart
Diaphragm
2
3
4

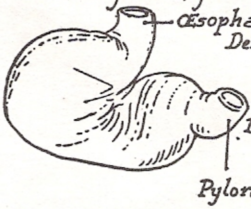
Position of the heart in the rib cage


Lung
Diaphragm
Liver
Stomach
Spleen
Left side


Œsophagus
Pylorus

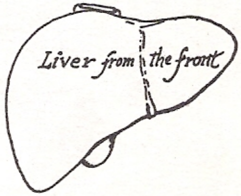
Stomach from the front

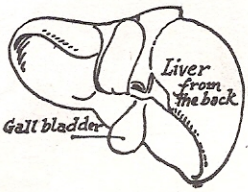

Lung
Lung
Stomach
Spleen
Liver
Kidney
Kidney
Ureter
Descending colon
Ascending colon.
Vermiform appendage (Appendix)
Rectum


Œsophagus
Pylorus

Stomach from the back

Back view Illustrating relative positions of internal organs


Liver from the front


Liver from the back
Gall bladder